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A METHOD OF COMPUTING SPHERICAL BESSEL FUNCTIONS OF COMPLEX ARGUMENT WITH TABLES

W. J. Lentz

Army Electronics Command

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Atmospheric Sciences Laboratory

September 1973

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By

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US Army Electronics Command
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13. ABSTRACT

Ten-place tables of spherical Bessel functions of complex argument with real and imaginary values from 0.001 to 1000 in varying increments for 100 consecutive orders are presented. The method used to generate these tables is based on a continued fraction representation of the ratio of Bessel functions of consecutive order. This method retains a high degree of accuracy in a finite digit machine, incorporates a terminating condition, is fast and simple, and is versatile enough to find wide application as a method for continued fractions in general.

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INTRODUCTION

Spherical Bessel functions of complex argument find application in scientific computations ranging from electronic circuit analysis to the understanding of nuclear and Mie scattering. Yet tables of Bessel functions are presently limited to spherical Bessel functions of real argument and to nonspherical Bessel functions of complex argument of 0 and 1 order. Tables of the former may be found in Abramowitz [1], and tables of the latter in Lowan [2]. The generation of spherical Bessel functions of complex argument is not a trivial problem, even with modern high-speed computers, because of difficulties associated with each of the methods used for their generation.

To surmount these difficulties, it became necessary to develop a method which would be simple and accurate for machine computation, and which would incorporate a terminating condition. The result was a method based on a continued fraction representation of the ratio of Bessel functions of consecutive order.

The purpose of this report is primarily to present the new method of calculating continued fractions, and secondarily to present tables of spherical Bessel functions of complex argument against which this method and others may be checked. The development is placed in perspective by reviewing the advantages and disadvantages of the other methods and algorithms which might be used. Suggestions are made relative to the extension of the method to other functions of complex argument.

RECURSION RELATIONS

Recursion relations are the simplest and most common method of generating Bessel functions. The fundamental recursion relation is

$$J_{v+1}(x) + J_{v-1}(x) = 2v/x\ J_v(x) \qquad (1)$$

where J is the Bessel function of order v and complex argument x and v = m+1/2 where n is an integer. This relation may be used with two consecutive orders to generate all the necessary orders by starting at low order and recurring upward or starting at an approximate high order and recurring downward.

Unfortunately both of these methods have serious limitations. Lowan [2] has noted that the upward recursions are unstable when 2v/x is greater than unity, because the values of consecutive orders of

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Bessel functions have common initial digits. Gautchi [3] has shown that the upward recursion has no digit accuracy after only seven recursions with 32-bit capacity for $x = 1.0$. Therefore, even using double precision arithmetic, the procedure will not work for more than a very few consecutive orders.

Miller's downward recursion scheme [4] has solved the problem of accuracy at the expense of machine time and storage. By starting with an approximate value for high orders, one can recur downward with only roundoff error. Since downward recursions start at a very high order for moderate arguments, this method is impractical when only a few orders are needed. This technique also suffers from the same problem that the forward recursion has - once accuracy is lost in a term, all the following terms have lost the same amount of accuracy. In this case, roundoff error may accumulate so that the more significant smaller orders are very much more inaccurate than the approximate initial high order.

INFINITE SERIES

The infinite series for Bessel functions is seldom used because the series is computationally divergent for moderate x and small orders. When the series does converge, it converges slowly, and it is difficult to program. Infinite series representations of Bessel functions are therefore mathematically interesting but not very practical for computation.

CONTINUED FRACTIONS

Continued fractions have the advantage of being simple, easy to program, and accurate for machine computation. Unfortunately, they have been neglected in favor of recursion relations because of difficulties in determining the accuracy of a given number of terms in a continued fraction. The following development of continued fractions is intended to review their basic properties, point out the weaknesses in available algorithms, and to develop a method of generating Bessel functions which is free of these weaknesses.

Basic Properties

A continued fraction may be written as

$$f = a_0 + \cfrac{b_1}{c_1 + \cfrac{b_2}{c_2 + \cfrac{b_3}{c_3 \cdots}}} \qquad (2)$$

which can be rewritten as

$$f = a_0 + \frac{b_1}{c_1} + \frac{b_2}{c_2} + \frac{b_3}{c_3} + \ldots \tag{3}$$

The nth approximate convergent to the continued fraction representation of f is written as

$$f_n = a_0 + \frac{b_1}{c_1} + \ldots + \frac{b_n}{c_n} \tag{4}$$

Continued fractions may be generated from a three-term recursion relation in a simple way:

$$\frac{J_{v-1}}{J_v} = \frac{2v}{x} - \frac{J_{v+1}}{J_v} = \frac{2v}{x} - \cfrac{1}{\cfrac{2(v+1)}{x} - \cfrac{J_{v+2}}{J_{v+1}}}$$

$$= \frac{2v}{x} - \cfrac{1}{\cfrac{2(v+1)}{x} - \cfrac{1}{\cfrac{2(v+2)}{x} - \ldots}} \tag{5}$$

So

$$\frac{J_{v-1}}{J_v} = 2vx^{-1} - \cfrac{1}{2(v+1)x^{-1} - \cfrac{1}{2(v+2)x^{-1} - \ldots}} \tag{6}$$

This form is one of a simple continued fraction which may be defined as

$$f(x) = a_1 + \frac{1}{a_2} + \frac{1}{a_3} + \frac{1}{a_4} + \cdots + \frac{1}{a_n} + \cdots \tag{7}$$

where $a_1 \neq 0$ and the a's may be negative.

Equation (7) may be written in the more convenient notation of

$$f(x) = [a_1, a_2, a_3, \ldots] \tag{8}$$

The nth convergent is written in like manner:

$$f_n(x) = [a_1, a_2, a_3, \ldots, a_n] \tag{9}$$

It has been shown by Wall [5] that all continued fractions may be expressed as simple continued fractions of the above form. In addition, Watson [6] has shown that the form of the continued fraction for Bessel functions is unique, requiring that all the nth convergents of the continued fraction in whatever form have the same numerical value. For example, all of the following are equivalent in the nth convergent:

$$\frac{J_v}{J_{v-1}} = \frac{1/2\ x/v}{1} - \frac{1/4\ x^2/(v[v+1])}{1} - \frac{1/4\ x^2/([v+1][v+2])}{1} - \cdots \tag{10}$$

$$\frac{J_v}{J_{v-1}} = \frac{1}{2vx^{-1}} - \frac{1}{2(v+1)x^{-1}} - \cdots \tag{11}$$

$$\frac{J_v}{J_{v-1}} = \frac{x}{2v} - \frac{x^2}{2(v+1)} - \frac{x^2}{2(v+2)} - \cdots \tag{12}$$

Algorithms

It is now possible to generate the ratio of Bessel functions by starting with the last value on the right of Eq. (9) and working backwards to a_1. However, the minimum necessary value of n must be specified before the computation starts, since adding one term means the recomputation of the entire fraction. Gautchi [3] has made an estimate of the value of n for determining Bessel functions to a given accuracy. This method does not apply in general to continued fractions and is only an approximate estimate which is difficult to apply. Moreover, the tail-to-head method suffers somewhat from roundoff error when the difference between two values is near zero.

Another method of computing J_{v-1}/J_v follows logically from the relations

$$p_n = a_n p_{n-1} + p_{n-2}$$

$$q_n = a_n q_{n-1} + q_{n-2} \tag{13}$$

so

$$\frac{p_n}{q_n} \equiv [a_1, a_2, \ldots, a_n] \tag{14}$$

where p_n is the nth partial numerator and q_n the nth partial denominator of the nth convergent.

Wall [5] has shown that these relations are generally true for any continued fraction. Starting with the initial values of $p_1 = a_1$, $q_1 = 1$, $p_0 = 1$, and $q_0 = 0$, one can generate successive approximants to the exact infinite continued fraction until the desired accuracy is obtained. This method is illustrated in Teichroew [7] and Abramowitz [1]. The former has noted that the values of p_n and q_n may grow so large as to cause overflow in the computer. Moreover, for negative a_m an initial number of digits may cancel, causing loss of accuracy in the mth convergent in exactly the same way as the original recursion relation (Eq. (1)). This forward ratio method leaves much to be desired.

By noticing that the relations in Eq. (13) are themselves recursion relations, one obtains a new method of generating Bessel functions:

$$\frac{p_n}{p_{n-1}} = a_n + \frac{p_{n-2}}{p_{n-1}} = [a_n, a_{n-1}, \ldots, a_2, a_1]$$

$$\frac{q_n}{q_{n-1}} = a_n + \frac{q_{n-2}}{q_{n-1}} = [a_n, a_{n-1}, \ldots, a_2] \tag{15}$$

Note that the relation for q_n/q_{n-1} starts with a_2 rather than a_1 because $q_o = 0$.

$$\frac{\frac{p_n}{p_{n-1}}}{\frac{q_n}{q_{n-1}}} = \frac{\frac{p_n}{q_n}}{\frac{p_{n-1}}{q_{n-1}}} = \frac{[a_n, a_{n-1}, \ldots, a_1]}{[a_n, a_{n-1}, \ldots, a_2]} \tag{16}$$

So the value of p_n/q_n is given by

$$\frac{p_n}{q_n} = \frac{[a_n, \ldots, a_1]\,[a_{n-1}, \ldots, a_1] \ldots [a_1]}{[a_n, \ldots, a_2]\,[a_{n-1}, \ldots, a_2] \ldots [a_2]} \tag{17}$$

Eq. (17) gives the value of the nth approximant to the exact continued fractions representation for a particular continued fraction. When the ratio

$$\frac{\frac{p_n}{q_n}}{\frac{p_{n-1}}{q_{n-1}}} - 1 < \varepsilon \tag{18}$$

where ε is the maximum allowable error, the product can be terminated since all subsequent ratios will be unity. Eq. (17) gives a simple method of computing the ratios of Bessel functions of successive order to the number of significant digits in the computer. The specific formula for the Bessel function is

$$\frac{J_{v-1}}{J_v} = 2vx^{-1} + \frac{1}{-2(v+1)x^{-1}} \quad \frac{1}{+\,2(v+2)x^{-1}} + \frac{1}{-2(v+3)x^{-1}} + \cdots \tag{19}$$

Every other a_n is negative in Eq. (17), but the application is unchanged. Each numerator and denominator is generated from the preceding one by taking the reciprocal and adding the next a_n:

$$\frac{J_{v-1}}{J_v} \simeq \frac{[2(v+2m)x^{-1}, -2(v+2m-1)x^{-1}, \ldots, 2vx^{-1}] \ldots [2vx^{-1}]}{[2(v+2m)x^{-1}, -2(v+2m-1)x^{-1}, \ldots, -2(v+1)x^{-1}] \ldots [-2(v+1)x^{-1}]} \tag{20}$$

Since both the numerators and denominators alternate in sign, it is simpler to consider all a_n positive, and to generate each successive term by taking the reciprocal and subtracting from the next a_n. The nth approximate convergent is the product of all the preceding ratios, and the fraction terminates when the nth ratio in Eq. (18) is unity.

It may be noted that the order of the terms in the simple continued fraction has been reversed between Eqs. (8) and (17). This means that it is not necessary to decide how many terms are desired before the computation, as in Eq. (9). Because the successive numerators and denominators of Eq. (17) are tending toward the same finite value, there is no large growth in the numerator and denominator as in the use of Eq. (13).

An advantage that is not immediately apparent is that a particular n^{th} convergent being near zero or very large is no disadvantage. Although the computed n^{th} approximant will deviate slightly from the theoretical value, the nth convergent will converge back to the correct value. In other words, the nth approximant is slightly self-correcting.

The continued fraction converges very quickly and does not require significant storage. This first ratio usually requires the largest number of terms, and for $x = 1.0$ and $v = 1.5$ with 64-bit capacity, only nine terms are needed. A sample calculation follows:

$x = 1.0 \quad v = 9.5$

$$\frac{J_{v-1}}{J_v} = \frac{(19)\ (20.94736842)\ (22.95226131)\ (24.95643131)\ (26.95993017)}{(21)\ \ (22.95238095)\ (24.95643154)\ (26.95993017)}$$

$$= 18.95228198 \tag{21}$$

This value is identical to the handbook value [1].

The development has made no restrictions on the form of the argument or order, so they can both be complex and positive or negative. Near zeros of the Bessel functions it should be noted that the accuracy may drop to ten places rather than ten significant digits. The actual spherical Bessel functions rather than their ratios as in Eq. (19) are found from

$$j_o(x) = \sqrt{\frac{\pi}{2x}}\ J_{1/2}(x) = \frac{\sin(x)}{x} \qquad y_o(x) = \sqrt{\frac{\pi}{2x}}\ J_{-1/2}(x) = \frac{-\cos(x)}{x}$$

$$j_n(x) = \frac{J_{n+1/2}}{J_{n-1/2}}\ \frac{J_{n-1/2}}{J_{n-3/2}} \cdots J_{1/2}\sqrt{\frac{\pi}{2x}}$$

$$y_n(x) = \frac{J_{-n-1/2}}{J_{-n+1/2}}\ \frac{J_{-n+1/2}}{J_{-n+3/2}} \cdots J_{-1/2}\sqrt{\frac{\pi}{2x}} \tag{22}$$

ACCURACY

A comparison between the accuracy of a double precision 64-bit and single precision 32-bit program was made for the real values of argument tabulated in Abramowitz [1]. The agreement between the double precision routine and the handbook was exact for 10 significant digits for all arguments. By comparing the single precision version to the double precision version, it is estimated that the last four of the 16 digits would be susceptible to machine roundoff. Therefore, the table is reproduced to 10 [illegible] to allow for the additional possibility of roundoff err[illegible] complex arguments.

OTHER FUNCTIONS

Many known functions have been expressed in the form of continued fractions, and they may be evaluated by Eq. (17). Abramowitz [1] has listed one form of a continued fraction representation for most of the

functions in his handbook. The form of any continued fraction may be changed to that of Eq. (7) by the following transformations:

$$f(x) = a_o + \frac{b_1}{c_1} \; + \frac{b_2}{c_2} \; + \cdots \quad = a_o + \frac{d_1 b_1}{d_1 c_1} \; + \frac{d_1 d_2 b_2}{d_2 c_2} \; + \frac{d_2 d_3 b_3}{d_3 c_3} \; + \cdots \qquad (23)$$

The only requirement is that a_o be nonzero; if a_o is zero, this requirement may be met by taking the reciprocal of the continued fraction.

The continued fraction technique will converge with fewer terms than any other current method and is specifically adapted to machine computation. Although mathematically equivalent to recursion relations, the continued fraction technique gains accuracy from the fact that the product of two numbers in the computer does not lose accuracy, as does the difference of two numbers.

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APPENDIX A

USE OF THE TABLES

The following tables contain 100 orders of spherical Bessel functions of the first and second kind for the same argument on the same page. The real and imaginary parts of the spherical Bessel functions of the first kind $j_n(x) = \sqrt{\tfrac{1}{2}\pi/x}\,J_{n+\frac{1}{2}}(x)$ are presented on the left side with the appropriate order n, and the spherical Bessel functions of the second kind $y_n(x) = \sqrt{\tfrac{1}{2}\pi/x}\,Y_{n+\frac{1}{2}}(x) = (-1)^{n+1}\sqrt{\tfrac{1}{2}\pi/x}\,J_{-(n+\frac{1}{2})}(x)$ are in like manner on the right side of the page.

Beyond the 20th order, the missing orders can be found by a downward recursion for $j_n(z)$ and by an upward recursion for $y_n(x)$. The spherical Bessel functions of the complex conjugate of the argument presented here can be found by raking the complex conjugate of the results in the Table. Since these Tables are intended as check values, interpolation should not be attempted between values of argument.

In those few cases where the value of the spherical Bessel functions exceed $10^{\pm 300}$ a scale factor of 10^{+300} was multiplied by the $j_n(x)$ and 10^{-300} was multiplied by the $y_n(x)$. These scale factors are indicated by a sudden break in the order of magnitude with increasing n since the initial values never exceeded the scale factor.

Many of the more useful relations among the spherical Bessel functions may be found in Abramowitz [1]. If these relations are used to check the table, it should be noted that the initial values of j_o and y_o are given by Eq. (22) and that the last or highest order being correct depends on all the lower orders being correct.

REAL X = .1000000000-002 IMAGINARY X = .0000000000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.9999998333+000	.0000000000	0	-.9999995000+003	.0000000000
1	.3333333000-003	.0000000000	1	-.1000000500+007	.0000000000
2	.6666666190-007	.0000000000	2	-.3000000500+010	.0000000000
3	.9523808995-011	.0000000000	3	-.1500000150+014	.0000000000
4	.1058201010-014	.0000000000	4	-.1050000075+018	.0000000000
5	.9620009250-019	.0000000000	5	-.9450000525+021	.0000000000
6	.7400007153-023	.0000000000	6	-.1039500047+026	.0000000000
7	.4933338122-027	.0000000000	7	-.1351350052+030	.0000000000
8	.2901963610-031	.0000000000	8	-.2027025068+034	.0000000000
9	.1527349272-035	.0000000000	9	-.3445942601+038	.0000000000
10	.7273091787-040	.0000000000	10	-.6547290922+042	.0000000000
11	.3162213825-044	.0000000000	11	-.1374931090+047	.0000000000
12	.1264885532-048	.0000000000	12	-.3162341501+051	.0000000000
13	.4684761237-053	.0000000000	13	-.7905853739+055	.0000000000
14	.1615434911-057	.0000000000	14	-.2134580506+060	.0000000000
15	.5211080363-062	.0000000000	15	-.6190283460+064	.0000000000
16	.1579115263-066	.0000000000	16	-.1918987871+069	.0000000000
17	.4511757898-071	.0000000000	17	-.6332659967+073	.0000000000
18	.1219394027-075	.0000000000	18	-.2216430986+078	.0000000000
19	.3126651354-080	.0000000000	19	-.8200794643+082	.0000000000
20	.7625978916-085	.0000000000	20	-.3198309909+087	.0000000000
30	.5611193649-132	.0000000000	30	-.2921560662+134	.0000000000
31	.8906656588-137	.0000000000	31	-.1782152003+139	.0000000000
40	.1547505320-180	.0000000000	40	-.7977794232+182	.0000000000
41	.1864464241-185	.0000000000	41	-.6462013327+187	.0000000000
50	.3632868058-230	.0000000000	50	-.2725392154+232	.0000000000
51	.3527056368-235	.0000000000	51	-.2752646075+237	.0000000000
60	.1185210171-280	.0000000000	60	-.6972993491+282	.0000000000
61	.9635855053-286	.0000000000	61	-.8437322124+287	.0000000000
70	.7450332054-032	.0000000000	70	-.9519305355+033	.0000000000
71	.5210022416-037	.0000000000	71	-.1342222055+039	.0000000000
80	.1139843580-083	.0000000000	80	-.5449151298+085	.0000000000
81	.6992905401-089	.0000000000	81	-.8773133589+090	.0000000000
90	.5058076563-136	.0000000000	90	-.1092285142+138	.0000000000
91	.2763976264-141	.0000000000	91	-.1977036107+143	.0000000000
99	.1500080550-183	.0000000000	99	-.3349903863+185	.0000000000
100	.7463087313-189	.0000000000	100	-.6666308687+190	.0000000000

REAL X = .1000000000-002 IMAGINARY X = -.1000000000-002

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.1000000000+001	.3333333333-006	0	-.4999995000+003	-.5000005000+003
1	.3333334000-003	-.3333332667-003	1	-.5000000000+000	-.5000000000+006
2	.1904761905-013	-.1333333333-006	2	.7499997500+009	-.7500002500+009
3	-.1904761693-010	-.1904762116-010	3	.3750000000+013	-.7500000000+006
4	-.4232804233-014	-.3848003848-021	4	.1312500187+017	.1312499812+017
5	-.3848004144-018	.3848003552-018	5	.1312500000+014	.1181250000+021
6	-.3946670614-029	.5920005920-022	6	-.6496874409+024	.6496875591+024
7	.3946670381-026	.3946670845-026	7	-.8445937500+028	.6496875000+021
8	.4643141898-030	.2443758894-037	8	-.6334453547+032	-.6334452703+032
9	.2443759010-034	-.2443758777-034	9	-.6334453126+029	-.1076857031+037
10	.1011908445-045	-.2327389423-038	10	.1023014126+041	-.1023014234+041
11	-.1011908404-042	-.1011908485-042	11	.2148329777+045	-.1023014180+038
12	-.8095267557-047	-.2998247245-054	12	.2470579351+049	.2470579137+049
13	-.2998247347-051	.2998247140-051	13	.2470579244+046	.6176448110+053
14	-.6670182971-063	.2067756719-055	14	-.8338204639+057	.8338205257+057
15	.6670182764-060	.6670183168-060	15	-.2418079435+062	.8338204950+054
16	.4042535131-064	.1155010038-071	16	-.3748023245+066	-.3748023003+066
17	.1155010069-068	-.1155010006-068	17	-.3748023125+063	-.1236847631+071
18	.1600845515-080	-.6243297500-073	18	.2164483292+075	-.2164483416+075
19	-.1600845474-077	-.1600845552-077	19	.8008588411+079	-.2164483355+072
20	-.7809002501-082	-.1816047096-089	20	.1561674780+084	.1561674700+084
30	-.2918533262-135	.1838675950-127	30	-.4457947674+129	.4457947825+129
31	.2918533208-132	.2918533298-132	31	-.2719348127+134	.4457947752+126
40	.1622676948-174	.1955032478-182	40	-.3804108754+176	-.3804108658+176
41	.1955032491-179	-.1955032445-179	41	-.3804108711+173	-.3081328052+181
50	.1183483745-230	-.1218988248-222	50	.4061150718+224	-.4061150800+224
51	-.1183483725-227	-.1183483747-227	51	.4101762267+229	-.4061150768+221
60	-.1272609736-271	-.1034642073-279	60	.3247053139+273	.3247053085+273
61	-.1034642070-276	.1034642054-276	61	.3247053121+270	.3928934265+278
70	.1060829663-030	.2559914610-021	70	-.1385241231+023	.1385241251+023
71	.1790150078-026	.1790150076-026	71	-.1953190149+028	.1385241246+020
80	.1253271274-071	-.1594710073-080	80	-.2477987125+073	-.2477987094+073
81	.7688780813-077	-.7688780834-077	81	-.2477987122+070	-.3989559246+078
90	-.3457733971-131	-.1779652483-122	90	.1552230533+124	-.1552230551+124
91	-.9724876978-128	-.9724876940-128	91	.2809537281+129	-.1552230552+121
99	-.8444702798-169	-.8444702757-169	99	.2975312311+170	-.1510310829+162
100	-.8402689331-174	.2084958455-182	100	.2960435765+175	.2960435735+175

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REAL X = .1000000000-001 IMAGINARY X = .0000000000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.9999833334+000	.0000000000	0	-.9999500004+002	.0000000000
1	.3333300000-002	.0000000000	1	-.1000049999+005	.0000000000
2	.6666619048-005	.0000000000	2	-.3000050001+007	.0000000000
3	.9523756614-008	.0000000000	3	-.1500015000+010	.0000000000
4	.1058196248-010	.0000000000	4	-.1050007500+013	.0000000000
5	.9619972620-014	.0000000000	5	-.9450052500+015	.0000000000
6	.7399982733-017	.0000000000	6	-.1039504725+019	.0000000000
7	.4933323757-020	.0000000000	7	-.1351355198+022	.0000000000
8	.2901956050-023	.0000000000	8	-.2027031757+025	.0000000000
9	.1527345672-026	.0000000000	9	-.3445952635+028	.0000000000
10	.7273076135-030	.0000000000	10	-.6547307980+031	.0000000000
11	.3162207565-033	.0000000000	11	-.1374934331+035	.0000000000
12	.1264883213-036	.0000000000	12	-.3162348307+038	.0000000000
13	.4684753240-040	.0000000000	13	-.7905869392+041	.0000000000
14	.1615432332-043	.0000000000	14	-.2134584420+045	.0000000000
15	.5211072547-047	.0000000000	15	-.6190294027+048	.0000000000
16	.1579113030-050	.0000000000	16	-.1918990935+052	.0000000000
17	.4511751862-054	.0000000000	17	-.6332669466+055	.0000000000
18	.1219392480-057	.0000000000	18	-.2216434121+059	.0000000000
19	.3126647579-061	.0000000000	19	-.8200805615+062	.0000000000
20	.7625970137-065	.0000000000	20	-.3198313968+066	.0000000000
30	.5611189240-102	.0000000000	30	-.2921563113+103	.0000000000
31	.8906649805-106	.0000000000	31	-.1782153449+107	.0000000000
40	.1547504397-140	.0000000000	40	-.7977799231+141	.0000000000
41	.1864463156-144	.0000000000	41	-.6462017276+145	.0000000000
50	.3632866312-180	.0000000000	50	-.2725393516+181	.0000000000
51	.3527054705-184	.0000000000	51	-.2752647424+185	.0000000000
60	.1185209694-220	.0000000000	60	-.6972996392+221	.0000000000
61	.9635851237-225	.0000000000	61	-.8437325575+225	.0000000000
70	.7450329476-262	.0000000000	70	-.9519308745+262	.0000000000
71	.5210020637-266	.0000000000	71	-.1342222526+267	.0000000000
80	.1139843234-003	.0000000000	80	-.5449152994+004	.0000000000
81	.6992903303-008	.0000000000	81	-.8773136287+008	.0000000000
90	.5058075195-046	.0000000000	90	-.1092285444+047	.0000000000
91	.2763975525-050	.0000000000	91	-.1977036648+051	.0000000000
99	.1500080180-084	.0000000000	99	-.3349904705+085	.0000000000
100	.7463085493-089	.0000000000	100	-.6666310345+089	.0000000000

REAL X = .1000000000-001 IMAGINARY X = -.1000000000-002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9999835001+000	.3333300333-005	0	-.9900490103+002	-.9901490087+001
1	.3333301000-002	-.3333233667-003	1	-.9705430877+004	-.1960592101+004
2	.6599955233-005	-.1333314476-005	2	-.2824466837+007	-.8706243131+006
3	.9238047593-008	-.2847593121-008	3	-.1355140990+010	-.5708252655+009
4	.9948107191-011	-.4190448290-011	4	-.8996416554+012	-.4895412632+012
5	.8562789304-014	-.4713876301-014	5	-.7580370371+015	-.5163904053+015
6	.6301080969-017	-.4292429927-017	6	-.7693434530+018	-.6449633915+018
7	.3914559913-020	-.3281693597-020	7	-.9072282004+021	-.9291747885+021
8	.2109642015-023	-.2160677021-023	8	-.1209371589+025	-.1514698774+025
9	.9966182441-027	-.1248232582-026	9	-.1780625737+028	-.2753049650+028
10	.4151405280-030	-.6418546281-030	10	-.2831790342+031	-.5513971976+031
11	.1525891747-033	-.2971168742-033	11	-.4741409707+034	-.1205347955+035
12	.4915099842-037	-.1249503365-036	12	-.8052415020+037	-.2852823923+038
13	.1357628374-040	-.4809831617-040	13	-.1287027025+041	-.7260761351+041
14	.3022914478-044	-.1705377593-043	14	-.1499570881+044	-.1975400996+045
15	.4250118302-048	-.5598731961-047	15	.1366246173+047	-.5714999714+048
16	-.4086711368-052	-.1709464735-050	16	.2173451858+051	-.1749915197+052
17	-.6051817991-055	-.4872509002-054	17	.1281892192+055	-.5646530358+055
18	-.2952521192-058	-.1300538145-057	18	.6398918890+058	-.1912296259+059
19	-.1090528143-061	-.3259007709-061	19	.3044702451+062	-.6771025336+062
20	-.3454704950-065	-.7682817209-065	20	.1437132554+066	-.2496986428+066
30	-.6439766506-102	-.9833770893-103	30	.2500630944+103	-.1298106283+102
31	-.1037794345-105	-.5387308174-107	31	.1518122061+107	.7262773349+105
40	-.1253073673-140	.1412548196-140	40	.3811614043+141	.5272182396+141
41	-.1359540801-144	.1852838058-144	41	.2634020342+145	.4533869719+145
50	.1247361131-180	.4488816863-180	50	-.7660863994+180	.1970981343+181
51	.1646837710-184	.4236971638-184	51	-.9631845280+184	.1894372683+185
60	.1524679672-220	.4767659521-221	60	-.5041634955+221	.1039835635+221
61	.1278338438-224	.2636568983-225	61	-.6164552837+225	.6417458180+224
70	.8115476906-262	-.6747538145-262	70	-.4690590671+262	-.4765205871+262
71	.5203302881-266	-.5286074041-266	71	-.5883008694+266	-.7307241121+266
80	-.2023353863-004	-.1684966245-003	80	.7918260948+003	-.3554652158+004
81	-.2275043027-008	-.1021308413-007	81	.1828850502+008	-.5540104902+008
90	-.7111066732-046	-.3475464460-046	90	.6512742915+046	-.2413793433+046
91	-.4075744946-050	-.1510578025-050	91	.1210392203+051	-.3158573890+050
99	-.2218481522-084	.1050980173-084	99	.1744853275+085	.1050873474+085
100	-.1051434582-088	.6332479248-089	100	.3230825927+089	.2414320803+089

REAL X = .1000000000-001 IMAGINARY X = -.1000000000-001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9999999997+000	.3333333333-004	0	-.4999499992+002	-.5000499992+002
1	.3333400000-002	-.3333266666-002	1	-.4999999997+000	-.5000000025+004
2	.1904761905-009	-.1333333333-004	2	.7499749987+006	-.7500249988+006
3	-.1904740741-007	-.1904783069-007	3	.3749999999+009	-.7499999996+004
4	-.4232804233-010	-.3848003848-015	4	.1312518750+012	.1312481250+012
5	-.3848033448-013	.3847974248-013	5	.1312500000+010	.1181250000+015
6	-.3946670613-021	.5920005920-015	6	-.6496815937+017	.6496934062+017
7	.3946647398-019	.3946693829-019	7	-.8445937500+020	.6496875000+015
8	.4643141898-022	.2443758894-027	8	-.6334495355+023	-.6334410895+023
9	.2443770531-025	-.2443747257-025	9	-.6334453125+021	-.1076857031+027
10	.1011908445-033	-.2327389423-028	10	.1023008795+030	-.1023019564+030
11	-.1011904397-031	-.1011912492-031	11	.2148329777+033	-.1023014180+028
12	-.8095267557-035	-.2998247243-040	12	.2470589986+036	.2470568502+036
13	-.2998257582-038	.2998236904-038	13	.2470579244+034	.6176448110+039
14	-.6670182966-047	.2067756719-041	14	-.8338174066+042	.8338235830+042
15	.6670162753-045	.6670203179-045	15	-.2418079435+046	.8338204948+040
16	.4042535131-048	.1155010037-053	16	-.3748035215+049	-.3748011034+049
17	.1155013159-051	-.1155006916-051	17	-.3748023124+047	-.1236847631+053
18	.1600845513-060	-.6243297500-055	18	.2164477170+056	-.2164489538+056
19	-.1600841608-058	-.1600849417-058	19	.8008588411+059	-.2164483354+054
20	-.7809002501-062	-.1816047093-067	20	.1561678744+063	.1561670736+063
30	-.2918533253-103	.1838675950-097	30	-.4457940194+098	.4457955305+098
31	.2918528763-101	.2918537743-101	31	-.2719348127+102	.4457947750+096
40	.1622676948-134	.1955032468-140	40	-.3804113522+135	-.3804103891+135
41	.1955034768-138	-.1955030168-138	41	-.3804108706+133	-.3081328052+139
50	.1183483736-178	-.1218988248-172	50	.4061146657+173	-.4061154861+173
51	-.1183482609-176	-.1183484863-176	51	.4101762267+177	-.4061150759+171
60	-.1272609736-211	-.1034642062-217	60	.3247055840+212	.3247050383+212
61	-.1034642890-215	.1034641234-215	61	.3247053112+210	.3928934265+216
70	-.1790150078-257	.2559914610-251	70	-.1385240244+252	.1385242237+252
71	.1790148843-255	.1790151312-255	71	-.1953190149+256	.1385241241+250
80	.1253271274-291	.7688780825-298	80	-.2477988668+292	-.2477985551+292
81	.7688785483-296	-.7688776163-296	81	-.2477987110+290	-.3989559246+296
90	.9724876962-039	-.1779652483-032	90	.1552229675+033	-.1552231409+033
91	-.9724871702-037	-.9724882216-037	91	.2809537281+037	-.1552230542+031
99	-.8444698576-070	-.8444706979-070	99	.2975312311+070	-.1510310818+064
100	-.8402689331-074	-.4139255830-080	100	.2960437238+074	.2960434262+074

REAL X = .1000000000+000 IMAGINARY X = .0000000000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.9983341665+000	.0000000000	0	-.9950041653+001	.0000000000
1	.3330001190-001	.0000000000	1	-.1004987507+003	.0000000000
2	.6661906084-003	.0000000000	2	-.3005012479+004	.0000000000
3	.9518519721-005	.0000000000	3	-.1501501252+006	.0000000000
4	.1057720150-006	.0000000000	4	-.1050750375+008	.0000000000
5	.9616310233-009	.0000000000	5	-.9455251876+009	.0000000000
6	.7397541094-011	.0000000000	6	-.1039972631+012	.0000000000
7	.4931887476-013	.0000000000	7	-.1351869868+014	.0000000000
8	.2901200103-015	.0000000000	8	-.2027700805+016	.0000000000
9	.1526985693-017	.0000000000	9	-.3446956181+018	.0000000000
10	.7271510997-020	.0000000000	10	-.6549013975+020	.0000000000
11	.3161581505-022	.0000000000	11	-.1375258465+023	.0000000000
12	.1264651338-024	.0000000000	12	-.3163028980+025	.0000000000
13	.4683953665-027	.0000000000	13	-.7907434923+027	.0000000000
14	.1615174403-029	.0000000000	14	-.2134975799+030	.0000000000
15	.5210290941-032	.0000000000	15	-.6191350743+032	.0000000000
16	.1578889713-034	.0000000000	16	-.1919297380+035	.0000000000
17	.4511148301-037	.0000000000	17	-.6333619442+037	.0000000000
18	.1219237720-039	.0000000000	18	-.2216747612+040	.0000000000
19	.3126270115-042	.0000000000	19	-.8201902827+042	.0000000000
20	.7625092312-045	.0000000000	20	-.3198719935+045	.0000000000
30	.5610748378-072	.0000000000	30	-.2921808238+072	.0000000000
31	.8905971555-075	.0000000000	31	-.1782298073+075	.0000000000
40	.1547412109-100	.0000000000	40	-.7978299122+100	.0000000000
41	.1864354581-103	.0000000000	41	-.6462412189+103	.0000000000
50	.3632691727-130	.0000000000	50	-.2725529789+130	.0000000000
51	.3526888433-133	.0000000000	51	-.2752782334+133	.0000000000
60	.1185161998-160	.0000000000	60	-.6973286451+160	.0000000000
61	.9635469665-164	.0000000000	61	-.8437670746+163	.0000000000
70	.7450071584-192	.0000000000	70	-.9519647748+191	.0000000000
71	.5209842781-195	.0000000000	71	-.1342269648+195	.0000000000
80	.1139808620-223	.0000000000	80	-.5449322640+223	.0000000000
81	.6992693519-227	.0000000000	81	-.8773406024+226	.0000000000
90	.5057938380-256	.0000000000	90	-.1092315650+256	.0000000000
91	.2763901571-259	.0000000000	91	-.1977090717+259	.0000000000
99	.1500043239-285	.0000000000	99	-.3349988878+285	.0000000000
100	.7462903513-289	.0000000000	100	-.6666476167+288	.0000000000

REAL X = .1000000000+000 IMAGINARY X = -.1000000000-001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9983507832+000	.3330034484-003	0	-.9851030503+001	-.9950865584+000
1	.3330101072-001	-.3323372499-002	1	-.9754807204+002	-.1960617071+002
2	.6595524460-003	-.1331448386-003	2	-.2829380305+004	-.8711131684+003
3	.9233331642-005	-.2845027202-005	3	-.1356583424+006	-.5711164130+005
4	.9944053106-007	-.4187686788-007	4	-.9003410701+007	-.4897567786+007
5	.8659883138-009	-.4711440139-009	5	-.7585067704+009	-.5165882320+009
6	.6299305909-011	-.4290612031-011	6	-.7697443638+011	-.6451815193+011
7	.3913622684-013	-.3280519810-013	7	-.9076410557+013	-.9294560069+013
8	.2109210511-015	-.2160009901-015	8	-.1209866771+016	-.1515113867+016
9	.9964445326-018	-.1247894354-017	9	-.1781299486+018	-.2753739653+018
10	.4150797065-020	-.6417000184-020	10	-.2832808211+020	-.5515246749+020
11	.1525710305-022	-.2970525970-022	11	-.4743084668+022	-.1205606908+023
12	.4914665898-025	-.1249258579-024	12	-.8055359143+024	-.2853397160+025
13	.1357563147-027	-.4808972561-027	13	-.1287566922+027	-.7262133774+027
14	.3022981188-030	-.1705098372-029	14	-.1500567535+029	-.1975754066+030
15	.4251166587-033	-.5597887857-032	15	.1364525728+031	-.5715970200+032
16	-.4081304502-036	-.1709226556-034	16	.2173236528+034	-.1750198789+035
17	-.6049712939-038	-.4871879887-037	17	.1281913145+037	-.5647407394+037
18	-.2951820120-040	-.1300382231-039	18	.6399273907+039	-.1912582129+040
19	-.1090319122-042	-.3258644529-042	19	.3044924541+042	-.6772003669+042
20	-.3454134391-045	-.7682021211-045	20	.1437249753+045	-.2497336690+045
30	-.6439250150-072	-.9834017881-073	30	.2500836475+072	-.1298633740+071
31	-.1037715286-074	-.5388482552-076	31	.1518245204+075	.7260892793+073
40	-.1253016538-100	.1412449853-100	40	.3811916565+100	.5272461680+100
41	-.1339485153-103	.1852715639-103	41	.2634235122+103	.4534111831+103
50	.1247258643-130	.4488615289-130	50	-.7661046108+129	.1971086570+130
51	.1646720905-133	.4236789423-133	51	-.9632126931+132	.1894474041+133
60	.1524615091-160	.4767592287-161	60	-.5041833926+160	.1039920402+160
61	.1278286234-163	.2636566861-164	61	-.6164797256+163	.6418222485+162
70	.8115245511-192	-.6747250734-192	70	-.4690789983+191	-.4765340464+191
71	.5203163120-195	-.5285839868-195	71	-.5883264471+194	-.7307453783+194
80	-.2023190697-224	-.1684916817-223	80	.7918283664+222	-.3554766647+223
81	-.2274914182-227	-.1021279445-226	81	.1828872102+226	-.5540284779+226
90	-.7110857558-256	-.3475409862-256	90	.6512907867+255	-.2413895538+255
91	-.4075628901-259	-.1510559822-259	91	.1210423247+259	-.3158725613+258
99	-.2218432611-285	.1050943623-285	99	.1744901961+285	.1050890847+285
100	-.1051412288-288	.6332275106-289	100	.3230917500+288	.2414364184+288

REAL X = .1000000000+000 IMAGINARY X = -.5000000000-001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9987496358+000	.1665416803-002	0	-.7950010433+001	-.4024942726+001
1	.3332498587-001	-.1662084859-001	1	-.4849906220+002	-.6400124896+002
2	.5002080916-003	-.6659524719-003	2	-.3880124948+003	-.2113993779+004
3	.2387232838-005	-.1308845872-004	3	.2680787484+005	-.9225599979+005
4	-.4620838244-007	-.1586970778-006	4	.4084796998+007	-.4413601499+007
5	-.1141572634-008	-.1232647416-008	5	.4529682299+009	-.1706343600+009
6	-.1352306074-010	-.5090741487-011	6	.4736503128+011	.4919192039+010
7	-.1071255903-012	.1114312149-013	7	.4669712299+013	.2974748233+013
8	-.5973787298-015	.3806503729-015	8	.3818332168+015	.6371476067+015
9	-.2142337722-017	.3575593208-017	9	.8598610524+016	.1126137585+018
10	-.1687859105-020	.2212781697-019	10	-.7252038680+019	.1777014854+020
11	.4076770087-022	.9987775250-022	11	-.2711043575+022	.2376101093+022
12	.3628350508-024	.3179737658-024	12	-.7174260662+024	.1877688220+024
13	.1932698800-026	.5057440141-027	13	-.1622593844+027	-.3419121831+026
14	.7536496264-029	-.1588391518-029	14	-.3135465803+029	-.2490950444+029
15	.2174934700-031	-.1727982203-031	15	-.4384615888+031	-.9416111170+031
16	.3972508286-034	-.8531755109-034	16	.8024439957+032	-.2878863031+034
17	-.8284348273-038	-.3005162257-035	17	.4011988262+036	-.7494181633+036
18	-.4287711872-039	-.8008770063-039	18	.2172541339+039	-.1536663712+039
19	-.2126108071-041	-.1503817891-041	19	.8704944538+041	-.1333088463+041
20	-.7019869171-044	-.1074888794-044	20	.2923882771+044	.9420631141+043
30	.3601674527-071	-.1553497553-070	30	.2148289303+070	-.8940204746+070
31	-.6612481269-074	-.2751719741-073	31	.3229779073+073	-.3838620353+073
40	.1280758428-098	.4013998404-099	40	-.8122131889+098	-.1310184884+098
41	.1784891065-101	-.2879297922-102	41	-.4838630451+101	-.3480574019+101
50	-.3563230379-128	.8931206715-128	50	-.7729954542+126	.9177088661+127
51	.8761004950-132	.1040080437-130	51	-.4332128000+130	.7102787814+130
60	-.8597554698-158	-.4211760612-158	60	.7720815958+157	.6275810375+155
61	-.8701983877-161	.7075100885-163	61	.7443368411+160	.3797627959+160
70	.9307202552-189	-.1583307042-188	70	-.2339222331+187	-.3445983437+188
71	.9724880881-193	-.1432634949-191	71	.1679671787+191	-.4018999061+191
80	.7041580943-220	.4893600374-220	80	-.6411872228+219	.9276956202+218
81	.5821094654-223	.8422127344-224	81	-.8855923668+222	-.2934376356+222
90	-.7331129381-252	.9005861546-252	90	.9269760877+250	.4153200328+251
91	-.1545462017-255	.6924278623-255	91	-.1664657340+254	.6684962701+254
99	-.3205707155-281	-.8837042350-281	99	.3468394717+280	-.3290962235+280
100	-.3793150002-284	-.3599098624-284	100	.8141289404+283	-.2478367132+283

REAL X = .1000000000+000 IMAGINARY X = -.1000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9999966667+000	.3333331746-002	0	-.4949916722+001	-.5049916611+001
1	.3339995236-001	-.3326661907-001	1	-.4999972222+000	-.5000250000+002
2	.1904761584-005	-.1333332275-002	2	.7474874584+003	-.7524875417+003
3	-.1902644541-004	-.1906877345-004	3	.3749987500+005	-.7499958333+002
4	-.4232802753-006	-.3848003519-009	4	.1314373123+007	.1310623127+007
5	-.3850962864-008	.3845042859-008	5	.1312499375+006	.1181249063+009
6	-.3946670410-013	.5920004759-010	6	-.6490965470+010	.6502777967+010
7	.3944348432-012	.3948991573-012	7	-.8445934547+012	.6496873906+009
8	.4643141316-014	.2443758809-017	8	-.6338674469+014	-.6330228533+014
9	.2444922335-016	-.2442594946-016	9	-.6334452584+013	-.1076856820+017
10	.1011908420-021	-.2327389220-018	10	.1022475593+019	-.1023552450+019
11	-.1011503606-020	-.1012313133-020	11	.2148329508+021	-.1023014127+018
12	-.8095267040-023	-.2998247188-026	12	.2471653153+023	.2469504823+023
13	-.2999280955-025	.2997213198-025	13	.2470579159+022	.6176447573+025
14	-.6670182870-031	.2067756618-027	14	-.8335116107+027	.8341292555+027
15	.6668161410-030	.6672203945-030	15	-.2418079281+030	.8338204742+026
16	.4042534975-032	.1155010024-035	16	-.3749231956+032	-.3746813876+032
17	.1155322162-034	-.1154697833-034	17	-.3748023055+031	-.1236847571+035
18	.1600845498-040	-.6243297304-037	18	.2163864837+037	-.2165101684+037
19	-.1600455017-039	-.1601235917-039	19	.8008588102+039	-.2164483323+036
20	-.7809002299-042	-.1816047079-045	20	.1562075115+042	.1561274257+042
30	-.2918533242-071	.1838675927-067	30	-.4457192099+067	.4458703268+067
31	.2918084215-070	.2918982225-070	31	-.2719348089+070	.4457947727+066
40	.1622676937-094	.1955032463-098	40	-.3804590208+094	-.3803627142+094
41	.1955262458-097	-.1954802451-097	41	-.3804108696+093	-.3081328028+097
50	.1183483734-126	-.1218988243-122	50	.4060740521+122	-.4061560955+122
51	-.1183371018-125	-.1183596444-125	51	.4101762246+125	-.4061150752+121
60	-.1272609732-151	-.1034642061-155	60	.3247325962+151	.3246780239+151
61	-.1034724830-154	.1034559288-154	61	.3247053108+150	.3928934252+154
70	-.1790150076-185	.2559914604-181	70	-.1385141579+181	.1385340895+181
71	.1790026614-184	.1790273532-184	71	-.1953190144+184	.1385241239+180
80	.1253271272-211	.7688780819-216	80	-.2478142953+211	-.2477831256+211
81	.7689246796-215	-.7688314823-215	81	-.2477987108+210	-.3989559238+214
90	.9724876954-247	-.1779652481-242	90	.1552143823+242	-.1552317256+242
91	-.9724351276-246	-.9725402614-246	91	.2809537277+245	-.1552230541+241
99	-.8444282633-271	-.8445122902-271	99	.2975312308+270	-.1510310817+266
100	-.8402689321-274	-.4139255826-278	100	.2960584512+273	.2960286981+273

REAL X = .5000000000+000 IMAGINARY X = .0000000000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.9588510772+000	.0000000000	0	-.1755165124+001	.0000000000
1	.1625370306+000	.0000000000	1	-.4469181325+001	.0000000000
2	.1637110661-001	.0000000000	2	-.2505992282+002	.0000000000
3	.1174035444-002	.0000000000	3	-.2461300469+003	.0000000000
4	.6538960615-004	.0000000000	4	-.3420760734+004	.0000000000
5	.2977466875-005	.0000000000	5	-.6132756317+005	.0000000000
6	.1146651077-006	.0000000000	6	-.1345785629+007	.0000000000
7	.3825924069-008	.0000000000	7	-.3492909879+008	.0000000000
8	.1126143960-009	.0000000000	8	-.1046527178+010	.0000000000
9	.2965395717-011	.0000000000	9	-.3554699495+011	.0000000000
10	.7064123964-013	.0000000000	10	-.1349739281+013	.0000000000
11	.1536347347-014	.0000000000	11	-.5665350281+014	.0000000000
12	.3073833515-016	.0000000000	12	-.2604711390+016	.0000000000
13	.5694102833-018	.0000000000	13	-.1301789160+018	.0000000000
14	.9820150200-020	.0000000000	14	-.7027056753+019	.0000000000
15	.1584282443-021	.0000000000	15	-.4074391127+021	.0000000000
16	.2400947730-023	.0000000000	16	-.2525419793+023	.0000000000
17	.3430587719-025	.0000000000	17	-.1666369624+025	.0000000000
18	.4636732791-027	.0000000000	18	-.1166206195+027	.0000000000
19	.5945458910-029	.0000000000	19	-.8628259474+028	.0000000000
20	.7251588081-031	.0000000000	20	-.6728876184+030	.0000000000
30	.5215472608-051	.0000000000	30	-.6287310662+050	.0000000000
31	.4139516707-053	.0000000000	31	-.7669986145+052	.0000000000
40	.1405329805-072	.0000000000	40	-.1757113595+072	.0000000000
41	.8466142216-075	.0000000000	41	-.2846412810+074	.0000000000
50	.3222721537-095	.0000000000	50	-.6144791292+094	.0000000000
51	.1564464096-097	.0000000000	51	-.1241216806+097	.0000000000
60	.1026961759-118	.0000000000	60	-.1609552657+118	.0000000000
61	.4174709179-121	.0000000000	61	-.3895049800+120	.0000000000
70	.6305162791-143	.0000000000	70	-.2249704639+142	.0000000000
71	.2204628956-145	.0000000000	71	-.6344096156+144	.0000000000
80	.9421337382-168	.0000000000	80	-.1318560137+167	.0000000000
81	.2890007656-170	.0000000000	81	-.4245722178+169	.0000000000
90	.4083091760-193	.0000000000	90	-.2706256208+192	.0000000000
91	.1115607080-195	.0000000000	91	-.9796571878+194	.0000000000
99	.2365238425-216	.0000000000	99	-.4249202980+215	.0000000000
100	.5883713725-219	.0000000000	100	-.1691172001+218	.0000000000

REAL X = .5000000000+000 IMAGINARY X = -.1000000000-001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9588665124+000	.1625386482-002	0	-.1754359366+001	-.4467585789-001
1	.1625418833+000	-.3087059952-002	1	-.4464395998+001	-.1610876920+000
2	.1636514187-001	-.6431131065-003	2	-.2500198356+002	-.1456977152+001
3	.1172672212-002	-.6978000336-004	3	-.2451641927+003	-.1940125561+002
4	.6523535390-004	-.5199396049-005	4	-.3400494165+004	-.3386705243+003
5	.2965685194-005	-.2963675572-006	5	-.6081738436+005	-.7297919153+004
6	.1139823519-006	-.1370348399-007	6	-.1330837182+007	-.1869003044+006
7	.3793976096-008	-.5334432272-009	7	-.3442996488+008	-.5541925640+007
8	.1113593970-009	-.1793859681-010	8	-.1027831289+010	-.1866541114+009
9	.2922887352-011	-.5310846759-012	9	-.3477098690+011	-.7036806200+010
10	.6937527725-013	-.1404543209-013	10	-.1314395529+013	-.2935204487+012
11	.1502698977-014	-.3356707368-015	11	-.5490130962+014	-.1341954365+014
12	.2993068730-016	-.7317648048-017	12	-.2510795023+016	-.6672476759+015
13	.5517360125-018	-.1466513088-018	13	-.1247676731+018	-.3584541574+017
14	.9464721790-020	-.2719586134-020	14	-.6693552080+019	-.2068906460+019
15	.1518161522-021	-.4693037991-022	15	-.3855470528+021	-.1276741657+021
16	.2286511657-023	-.7572549352-024	16	-.2372941331+023	-.8388451502+022
17	.3285426894-025	-.1147368188-025	17	-.1554061197+025	-.5845990598+024
18	.4355445107-027	-.1638525790-027	18	-.1078989466+027	-.4307199926+026
19	.5542743030-029	-.2212732710-029	19	-.7916054386+028	-.3345095515+028
20	.6706408286-031	-.2834083203-031	20	-.6118811985+030	-.2731141601+030
30	.4330890300-051	-.2961908436-051	30	-.5086088460+050	-.3629719176+050
31	.3390401108-053	-.2419621219-053	31	-.6113579957+052	-.4550038734+052
40	.9871355338-073	-.1016053480-072	40	-.1189171790+072	-.1274010809+072
41	.5824380990-075	-.6239965385-075	41	-.1884349699+074	-.2101506911+074
50	.1759239069-095	-.2738756964-095	50	-.3184309631+094	-.5182304195+094
51	.8274275488-098	-.1346605545-097	51	-.6220286121+096	-.1059240500+097
60	.3768135681-119	-.9686462093-119	60	-.5467155746+117	-.1493092395+118
61	.1453031784-121	-.3968286911-121	61	-.1250261678+120	-.3638227038+120
70	.1088172942-143	-.6300764225-143	70	-.3336925870+141	-.2192744689+142
71	.3364217490-146	-.2210700822-145	71	-.8170017948+143	-.6199801693+144
80	-.2772002407-169	-.9569249378-168	80	.6348930038+165	-.1295820938+167
81	-.1437402265-171	-.2933679161-170	81	.2877701256+168	-.4166747205+169
90	-.9434513557-194	-.4048769680-193	90	.6547179358+191	-.2575542844+192
91	-.2799004103-196	-.1101073797-195	91	.2555509170+194	-.9272282267+194
99	-.9592546041-217	-.2213621805-216	99	.1732178432+215	-.3787801294+215
100	-.2496352548-219	-.5458830614-219	100	.7192660022+217	-.1493149809+218

REAL X = .5000000000+000 IMAGINARY X = -.1000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9603953523+000	.1626988426-001	0	-.1677633909+001	-.4315717780+000
1	.1630225818+000	-.3090071128-001	1	-.4020625263+001	-.1491459423+001
2	.1577420959-001	-.6440239540-002	2	-.1979736635+002	-.1281218481+002
3	.1037586461-002	-.6896504715-003	3	-.1616998497+003	-.1597744837+003
4	.5005172505-004	-.5001479768-004	4	-.1726769308+004	-.2573343921+004
5	.1821541870-005	-.2734286213-005	5	-.2081696305+005	-.5035614868+005
6	.4902539769-007	-.1193489089-006	6	-.2255868201+006	-.1150724645+007
7	.8376168361-009	-.4309520425-008	7	.1347696843+006	-.2984569408+008
8	-.7557391879-012	-.1317754867-009	8	.1762998705+009	-.8590052409+009
9	-.7147426255-012	-.3465704570-011	9	.1138008757+011	-.2690028803+011
10	-.3355411521-013	-.7914562693-013	10	.6122136200+012	-.8988739558+012
11	-.1074271364-014	-.1575140330-014	11	.3197276729+014	-.3132897638+014
12	-.2779990930-016	-.2721127769-016	12	.1690708823+016	-.1101969832+016
13	-.6158356886-018	-.4009941671-018	13	.9184796903+017	-.3669117428+017
14	-.1200433362-019	-.4790064290-020	14	.5148362185+019	-.9502108626+018
15	-.2091229413-021	-.3852403345-022	15	.2976268566+021	.4468202055+019
16	-.3285947451-023	.5030346367-025	16	.1768471645+023	.3815951700+022
17	-.4680627683-025	.1011253218-025	17	.1073568453+025	.4666215600+024
18	-.6052685188-027	.2632450373-027	18	.6596028632+026	.4585528746+026
19	-.7085620876-029	.4928089945-029	19	.4039698483+028	.4200979060+028
20	-.7439601672-031	.7739541794-031	20	.2398967400+030	.3756230515+030
30	.8784353755-051	.3327655850-051	30	-.3376673580+050	.5614664550+049
31	.7500378718-053	.1246544722-053	31	-.4092549863+052	-.1336810587+051
40	-.1269548148-073	-.3076818109-072	40	.1858389733+071	-.7640244260+071
41	-.4472210532-075	-.1838265321-074	41	.5275008434+073	-.1132168273+074
50	-.7756723013-095	.3694585210-095	50	.1810292516+094	.1353169221+094
51	-.3406753981-097	.2546655887-097	51	.2990385781+096	.3331449946+096
60	.2497553917-118	.2204009151-118	60	-.4209032201+117	.2441676572+117
61	.1194476708-120	.6928885619-121	61	-.1093025654+120	.3722636765+119
70	.7822843909-143	-.2361984983-142	70	-.6827641746+140	-.5548335227+141
71	.1083492430-145	-.8805847924-145	71	.1157628031+143	-.1541459796+144
80	-.4507629699-167	.3766958374-168	80	.2587552138+166	.7461987433+165
81	-.1359608997-169	.3921011240-170	81	.7549304219+168	.3912630819+168
90	.1115246159-192	.2108266754-192	90	-.2870543386+191	.3521158102+191
91	.4199223971-195	.5[illegible]50891659-195	91	-.1244290634+194	.1025788456+194
99	.1268768939-215	-.1052195486-215	99	-.3764441429+214	-.4645166933+214
100	.2632668822-218	-.3248655596-218	100	-.1085076934+217	-.2065784330+217

REAL X = .5000000000+000 IMAGINARY X = -.5000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9979168389+000	.8330853253-001	0	-.7397584859+000	-.1239411281+001
1	.1748498205+000	-.1581859095+000	1	-.4982640439+000	-.2062478299+001
2	.1190350932-002	-.3331679954-001	2	.5432401252+001	-.6442815749+001
3	-.2314068089-002	-.2446333586-002	3	.5987434905+002	-.2989594184+001
4	-.2644924532-003	-.6012184835-005	4	.4346152014+003	.4096360998+003
5	-.1225432576-004	.1179184419-004	5	.2099375651+003	.7556251305+004
6	-.1541618490-007	.9248875685-006	6	-.8124406634+005	.8502344147+005
7	.3037696111-007	.3128380108-007	7	-.2161687539+007	.4157562539+005
8	.1813585253-008	.2386431827-010	8	-.3296770340+008	-.3188670215+008
9	.4829477783-010	-.4715837780-010	9	-.1621533378+008	-.1102566470+010
10	.2470441477-013	-.2272717710-011	10	.2067363929+011	-.2122496757+011
11	-.4891321521-013	-.4990139390-013	11	.8798869594+012	-.1047532737+011
12	-.1976304803-014	-.1829963686-016	12	.2045765896+014	.2001769250+014
13	-.3691393699-016	.3628291414-016	13	.1011927434+014	.1011894262+016
14	-.1017779970-019	.1262019992-017	14	-.2706838232+017	.2757434778+017
15	.2020102299-019	.2050944146-019	15	-.1584649292+019	.1366116417+017
16	.6168270233-021	.4405981826-023	16	-.4952055391+020	-.4872820818+020
17	.8871376765-023	-.8752296091-023	17	-.2456275974+020	-.3242222810+022
18	.1526676230-026	-.2381582445-024	18	.1126676223+024	-.1142887667+024
19	-.3034698365-026	-.3071934390-026	19	.8397410957+025	-.5674012071+023
20	-.7447124850-028	-.4329772351-030	20	.3295992244+027	.3254004514+027
30	-.6795223505-049	.1712387351-046	30	-.9532715945+045	.9613845929+045
31	.1353811104-048	.1364265295-048	31	-.1167940986+048	.4786670121+045
40	.1475809550-066	.4445222916-069	40	-.8391753032+065	-.8338808042+065
41	.8916569158-069	-.8864272415-069	41	-.4182654593+065	-.1355175791+068
50	.2627859350-090	-.1082675928-087	50	.9121775611+086	-.9167961915+086
51	-.5243195337-090	-.5268222570-090	51	.1847263728+089	-.4572444301+086
60	-.1103810749-109	-.2243520871-112	60	.7502907302+108	.7471448525+108
61	-.4496009937-112	.4478061770-112	61	.3743594558+108	.1811897190+111
70	-.3790788387-135	.2168328749-132	70	-.3264920290+131	.3276685781+131
71	.7568497680-135	.7594641049-135	71	-.9223664989+133	.1635403307+131
80	.1035680496-155	.1590002007-158	80	-.6000818139+154	-.5981977250+154
81	.3184819797-158	-.3175183421-158	81	-.2995701347+154	-.1929230118+157
90	.1963922670-182	-.1437590501-179	90	.3837765378+178	-.3848500393+178
91	-.3922535076-182	-.3933150874-182	91	.1391214135+181	-.1921567707+178
99	-.1330681017-201	-.1333995293-201	99	.3771653369+200	-.4786364713+197
100	-.6628548134-204	-.8163240745-207	100	.7515019466+202	.7496161189+202

REAL X = .5000000000+000 IMAGINARY X = -.1500000000+001

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.1346732161+001	.3029594442+000	0	.1996118384+000	-.1442826384+001
1	.2871826040+000	-.5741951986+000	1	-.4411139628+000	-.4717576180+000
2	-.1408712410+000	-.1305478762+000	2	.3848834963+000	.3657666801+000
3	-.3641021654-001	.2103359956-001	3	-.2713025813+000	.1992174787+001
4	.1555819643-002	.7072006055-002	4	-.9131841216+001	.1283807180+001
5	.1021859204-002	.9743740664-004	5	-.2309857038+002	-.4899326443+002
6	.4918372227-004	-.1133730143-003	6	.2816705316+003	-.2615195534+003
7	-.9672014443-005	-.8574210096-005	7	.2795294469+004	.1566072572+004
8	-.1031874735-005	.6022540336-006	8	-.5990440271+004	.3011738749+005
9	.2064920075-007	.9675151244-007	9	-.3303601438+006	.3973055414+005
10	.7374456181-008	.8026022674-009	10	-.1702306423+007	-.3645246921+007
11	.2107266356-009	-.4624350379-009	11	.3911078437+008	-.3679882856+008
12	-.2351013338-010	-.2177587103-010	12	.6894357487+009	.3740994599+009
13	-.1639236959-011	.9836820549-012	13	-.2203423940+010	.1224883236+011
14	.1860450967-013	.1001153880-012	14	-.2110190092+012	.3007412745+011
15	.5135364663-014	.7056636795-015	15	-.1744996647+013	-.3509549654+013
16	.1094067976-015	-.2224904387-015	16	.5466966335+014	-.5424621962+014
17	-.7969113146-017	-.7845982495-017	17	.1436639923+016	.7279438346+015
18	-.4249572207-018	.2171851521-018	18	-.5285010728+016	.3531929145+017
19	.2919335028-020	.1910232019-019	19	-.8246339895+018	.1433075747+018
20	.7337414792-021	.1253850119-021	20	-.9780257356+019	-.1821395556+020
30	.5157711754-036	.1260197425-036	30	-.1039794174+035	-.1650442080+035
31	.7086304778-038	-.1127719605-037	31	.4777142771+036	-.5820432397+036
40	.1355433715-052	.4381991532-053	40	-.3248905313+051	-.4410466698+051
41	.1607532472-054	-.2185325773-054	41	.1618206786+053	-.2293801471+053
50	.3017351609-070	.1229132128-070	50	-.1250682663+069	-.1458353625+069
51	.3253676723-072	-.3797259965-072	51	.6314084500+070	-.1052616989+071
60	.9279412109-089	.4615679867-089	60	-.3558537229+087	-.3571861471+087
61	.9398853363-091	-.9439752464-091	61	.1732605053+089	-.3448187003+089
70	.5461670596-108	.3248951297-108	70	-.5341231115+106	-.4611975326+106
71	.5316820890-110	-.4592969700-110	71	.2396193673+108	-.5819669070+108
80	.7765299842-128	.5449351458-128	80	-.3328219956+126	-.2462654684+126
81	.7395879181-130	-.5474406593-130	81	.1307574544+128	-.4008271828+128
90	.3175498973-148	.2606546902-148	90	-.7197907462+146	-.4529187013+146
91	.3003875312-150	-.1890718110-150	91	.2313635136+148	-.9456969863+148
99	-.3211260873-167	.6801549643-167	99	-.3053878495+165	.2919675848+165
100	.4276902841-169	.4088033523-169	100	-.4701681408+167	-.2484606546+167

REAL X = .5000000000+000 IMAGINARY X = -.3000000000+001

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.3112203694+001	.1090197476+001	0	.1080094372+001	-.3125083931+001
1	.8947440394+000	-.2056790977+001	1	-.2040279480+001	-.9088200541+000
2	-.9659080337+000	-.5531693800+000	2	-.5266931543+000	.9925709147+000
3	-.2587688377+000	.3409483877+000	3	.2883555225+000	.3229854565+000
4	.9395051232-001	.9470167889-001	4	-.9746363030-001	-.2157152314+000
5	.2804797017-001	-.2064337277-001	5	.2938850084+000	-.7124164359+000
6	-.3626713689-002	-.6913088055-002	6	.2813799839+001	.8405708942+000
7	-.1449397716-002	.4945180423-003	7	-.1860648892+001	.1316667639+002
8	.4576290273-004	.2629246059-003	8	-.6837653541+002	.7833072427+000
9	.4181174533-004	-.5972650683-006	9	-.6529061818+002	-.3894418325+003
10	.6593339763-006	-.5887258283-005	10	.2401125031+004	-.8030819716+003
11	-.7392827835-006	-.2328075223-006	11	.8260531379+004	.1583144359+005
12	-.4182402749-007	.8317195112-007	12	-.1102252868+006	.8210451618+005
13	.8396656178-008	.6088314441-008	13	-.8229259150+006	-.7985979366+006
14	.7647181525-009	-.7586272976-009	14	.5902326153+007	-.8453787896+007
15	-.6083043680-010	-.8534325703-010	15	.8958652334+008	.4306048452+008
16	-.8604516507-011	.4227177994-011	16	-.2887168070+009	.9813169425+009
17	.2396104471-012	.7920465131-012	17	-.1110733837+011	-.1382653387+010
18	.6703531177-013	-.8809245568-014	18	-.5030182215+010	-.1296804481+012
19	.1711232368-015	-.5241263065-014	19	.1557212352+013	-.3183404295+012
20	-.3796705037-015	-.7542589703-016	20	.7314378410+013	.1915521632+014
30	-.4906699530-028	.1802117683-027	30	-.2607853471+026	.1204163015+026
31	.8177388338-029	.3752804257-029	31	-.3246092182+027	-.4776512890+027
40	.3233107557-041	.1146622975-041	40	-.5729019156+039	-.1031777343+040
41	.6079883018-043	-.1098416449-042	41	.2463942679+041	-.1958302444+041
50	.2191248798-056	-.4933243801-056	50	.5023525887+054	-.3318164644+054
51	-.1329663577-057	-.8766286345-058	51	.1361932114+056	.1466078395+056
60	-.1041467353-071	-.5640043896-072	60	.1408419689+070	.1807670091+070
61	-.1797508478-073	.2309930590-073	61	-.6177846192+071	.6712200065+071
70	-.2729612234-088	.4209133353-088	70	-.3427159443+086	.3134134691+086
71	.7873658401-090	.7194011216-090	71	-.1694989481+088	-.1329210799+088
80	.4107346789-105	.3153143781-105	80	-.2881949172+103	-.2688548778+103
81	.7060223394-107	-.6590955285-107	81	.1153648611+105	-.1739280347+105
90	.1039718713-122	-.1151547275-122	90	.7276688962+120	-.9164889906+120
91	-.1603470703-124	-.2018423736-124	91	.6093306116+122	.3376415101+122
99	.6180502700-139	-.8143282629-139	99	.1108574998+137	-.1175091400+137
100	-.1061526531-140	-.1124713150-140	100	.8778078502+138	.5892771584+138

REAL X = .1000000000+001 IMAGINARY X = .0000000000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.8414709848+000	.0000000000	0	-.5403023059+000	.0000000000
1	.3011686789+000	.0000000000	1	-.1381773291+001	.0000000000
2	.6203505201-001	.0000000000	2	-.3605017566+001	.0000000000
3	.9006581117-002	.0000000000	3	-.1664331454+002	.0000000000
4	.1011015808-002	.0000000000	4	-.1128981842+003	.0000000000
5	.9256115861-004	.0000000000	5	-.9994403434+003	.0000000000
6	.7156936310-005	.0000000000	6	-.1088094559+005	.0000000000
7	.4790134199-006	.0000000000	7	-.1404528524+006	.0000000000
8	.2826498802-007	.0000000000	8	-.2095911840+007	.0000000000
9	.1491376503-008	.0000000000	9	-.3549004843+008	.0000000000
10	.7116552640-010	.0000000000	10	-.6722150083+009	.0000000000
11	.3099551855-011	.0000000000	11	-.1408102512+011	.0000000000
12	.1241662597-012	.0000000000	12	-.3231913629+012	.0000000000
13	.4604637678-014	.0000000000	13	-.8065703047+013	.0000000000
14	.1589575988-015	.0000000000	14	-.2174507909+015	.0000000000
15	.5132686115-017	.0000000000	15	-.6298007233+016	.0000000000
16	.1556708271-018	.0000000000	16	-.1950207734+018	.0000000000
17	.4451177504-020	.0000000000	17	-.6429387516+019	.0000000000
18	.1203855742-021	.0000000000	18	-.2248335423+021	.0000000000
19	.3088742364-023	.0000000000	19	-.8312411677+022	.0000000000
20	.7537795722-025	.0000000000	20	-.3239592219+024	.0000000000
30	.5566831267-042	.0000000000	30	-.2946428547+041	.0000000000
31	.8838398941-044	.0000000000	31	-.1796821871+043	.0000000000
40	.1538210374-060	.0000000000	40	-.8028450851+059	.0000000000
41	.1853528272-062	.0000000000	41	-.6502028762+061	.0000000000
50	.3615274717-080	.0000000000	50	-.2739192285+079	.0000000000
51	.3510300060-082	.0000000000	51	-.2766307493+081	.0000000000
60	.1180401872-100	.0000000000	60	-.7002354448+099	.0000000000
61	.9597387446-103	.0000000000	61	-.8472260406+101	.0000000000
70	.7424320831-122	.0000000000	70	-.9553609989+120	.0000000000
71	.5192087359-124	.0000000000	71	-.1346990274+123	.0000000000
80	.1136352423-143	.0000000000	80	-.5466314292+142	.0000000000
81	.6971746491-146	.0000000000	81	-.8800422203+144	.0000000000
90	.5044275355-166	.0000000000	90	-.1095340529+165	.0000000000
91	.2756516044-168	.0000000000	91	-.1982505163+167	.0000000000
99	.1496353602-186	.0000000000	99	-.3358417058+185	.0000000000
100	.7444727742-189	.0000000000	100	-.6683079463+187	.0000000000

REAL X = .1000000000+001 IMAGINARY X = -.1000000000-002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.8414711044+000	.3011687085-003	0	-.5403011942+000	-.1381772319-002
1	.3011687675+000	-.2391336491-003	1	-.1381770377+001	-.2223240300-002
2	.6203501199-001	-.1150635394-003	2	-.3604999120+001	-.9433248895-002
3	.9006557590-002	-.2600872290-004	3	-.1664316003+002	-.6296793459-001
4	.1011010155-002	-.3951498754-005	4	-.1128965638+003	-.5478438562+000
5	.9256027212-004	-.4556480192-006	5	-.9994199679+003	-.5883689899+001
6	.7156832056-005	-.4246246983-007	6	-.1088064737+005	-.7516628896+002
7	.4790035718-006	-.3324812872-008	7	-.1404478772+006	-.1112725364+004
8	.2826420925-007	-.2246269922-009	8	-.2095818713+007	-.1872241353+005
9	.1491323488-008	-.1335110059-010	9	-.3548811634+008	-.3527968688+006
10	.7116235645-010	-.7085473266-012	10	-.6721710143+009	-.7358684928+007
11	.3099382806-011	-.3397040020-013	11	-.1407993454+011	-.1682950093+009
12	.1241581223-012	-.1485363493-014	12	-.3231621287+012	-.4187260828+010
13	.4604280663-014	-.5970002869-016	13	-.8064860523+013	-.1125921661+012
14	.1589432081-015	-.2220216338-017	14	-.2174248142+015	-.3253549201+013
15	.5132149601-017	-.7683230302-019	15	-.6297154095+016	-.1005455536+015
16	.1556522202-018	-.2486195449-020	16	-.1949910400+018	-.3308867078+016
17	.4450574259-020	-.7554662258-022	17	-.6428291539+019	-.1155266567+018
18	.1203672127-021	-.2163753860-023	18	-.2247909444+021	-.4265110054+019
19	.3088215669-023	-.5860774758-025	19	-.8310670525+022	-.1660106441+021
20	.7536367171-025	-.1505719683-026	20	-.3238845610+024	-.6794259363+022
30	.5564412543-042	-.1668939932-043	30	-.2944968778+041	-.9127327988+039
31	.8834293646-044	-.2738146988-045	31	-.1795874171+043	-.5745809915+041
40	.1537011461-060	-.6149469800-062	40	-.8021543559+059	-.3289658583+058
41	.1852009471-062	-.7595311109-064	41	-.6496161729+061	-.2729188903+060
50	.3610848610-080	-.1806578250-081	50	-.2735562378+079	-.1396070122+078
51	.3505827025-082	-.1789188184-083	51	-.2762497874+081	-.1437520298+080
60	.1178313716-100	-.7077414529-102	60	-.6989121002+099	-.4268068705+098
61	.9579833954-103	-.5850186402-104	61	-.8455724120+101	-.5248573436+100
70	.7406407546-122	-.5192447667-123	70	-.9529206794+120	-.6776437163+119
71	.5179192624-124	-.3683057974-125	71	-.1343452703+123	-.9688647844+121
80	.1132763907-143	-.9080790902-145	80	-.5448173971+142	-.4422351185+141
81	.6949173069-146	-.5640746989-147	81	-.8770496631+144	-.7207419082+143
90	.5024088409-166	-.4533649485-167	90	-.1090759325+165	-.9952781950+163
91	.2745236837-168	-.2504933739-169	91	-.1974031316+167	-.1821139461+166
99	.1489101161-186	-.1478970037-187	99	-.3341473588+185	-.3352484113+184
100	.7407909203-189	-.7432330309-190	100	-.6648689008+187	-.6737763486+186

REAL X = .1000000000+001 IMAGINARY X = -.1000000000-001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.8414829415+000	.3011716306-002	0	-.5401911536+000	-.1381676163-001
1	.3011775339+000	-.2391358449-002	1	-.1381481928+001	-.2222846780-001
2	.6203104957-001	-.1150651741-002	2	-.3603173439+001	-.9430228768-001
3	.9004228348-002	-.2600826345-003	3	-.1662786922+002	-.6293764821+000
4	.1010450498-002	-.3951169934-004	4	-.1127362208+003	-.5474727029+001
5	.9247251341-004	-.4555650988-005	5	-.9974039892+003	-.5878348536+002
6	.7146511796-005	-.4244914324-006	6	-.1085114509+005	-.7507824251+003
7	.4780287709-006	-.3323221144-007	7	-.1399557851+006	-.1111091993+005
8	.2818712892-007	-.2244749986-008	8	-.2086609248+007	-.1868876205+006
9	.1486076807-008	-.1333898387-009	9	-.3529708683+008	-.3520349054+007
10	.7084867490-010	-.7077173264-011	10	-.6678221833+009	-.7339883234+008
11	.3082656870-011	-.3392052380-012	11	-.1397215426+011	-.1677929644+010
12	.1233531132-012	-.1482692827-013	12	-.3202737079+012	-.4172839827+011
13	.4568968241-014	-.5957103707-015	13	-.7981638882+013	-.1121468137+013
14	.1575200890-015	-.2214540945-016	14	-.2148596563+015	-.3239025061+014
15	.5079103227-017	-.7660298306-018	15	-.6212933130+016	-.1000404927+016
16	.1538129200-018	-.2477628067-019	16	-.1920567147+018	-.3290287824+017
17	.4390956996-020	-.7524896081-021	17	-.6320168064+019	-.1148058387+019
18	.1185530394-021	-.2154088301-022	18	-.2205899269+021	-.4235696050+020
19	.3036190612-023	-.5831314236-024	19	-.8139020518+022	-.1647512887+022
20	.7395299710-025	-.1497258798-025	20	-.3165270055+024	-.6737812159+023
30	.5326462134-042	-.1646682915-042	30	-.2801796135+041	-.8969367131+040
31	.8430609812-044	-.2699029806-044	31	-.1702977439+043	-.5640186195+042
40	.1419703010-060	-.6000168536-061	40	-.7348424639+059	-.3192629257+059
41	.1703495805-062	-.7401264696-063	41	-.5924836707+061	-.2644892519+061
50	.3180842525-080	-.1737232366-080	50	-.2384683217+079	-.1333523869+079
51	.3071611126-082	-.1717679835-082	51	-.2394579727+081	-.1370675024+081
60	.9772227452-101	-.6684087275-101	60	-.5722403081+099	-.3998606506+099
61	.7891064242-103	-.5514035189-103	61	-.6874552816+101	-.4906733011+101
70	.5698796340-122	-.4799121438-122	70	-.7220011059+120	-.6204606253+120
71	.3951799276-124	-.3396048287-124	71	-.1009119756+123	-.8848970829+122
80	.7949496353-144	-.8183666612-144	80	-.3754135528+142	-.3942841175+142
81	.4826960776-146	-.5069616354-146	81	-.5979841851+144	-.6407529470+144
90	.3150049819-166	-.3968871188-166	90	-.6692829235+164	-.8607919201+164
91	.1699699788-168	-.2186061028-168	91	-.1195664315+167	-.1569942681+167
99	.8252122749-187	-.1257129958-186	99	-.1805746775+185	-.2811763870+185
100	.4043085922-189	-.6295589499-189	100	-.3537035175+187	-.5630639567+187

REAL X = .1000000000+001 IMAGINARY X = -.1000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.8426672076+000	.3014639475-001	0	-.5292844832+000	-.1372158621+000
1	.3020546931+000	-.2393554972-001	1	-.1353125521+001	-.2184080882+000
2	.6163451945-001	-.1152287122-001	2	-.3425026544+001	-.9134395054+000
3	.8771081996-002	-.2596228860-002	3	-.1515025366+002	-.5999127356+001
4	.9545242846-003	-.3918264271-003	4	-.9741892043+002	-.5116484669+002
5	.8373220754-004	-.4472756359-004	5	-.8073466986+003	-.5367341880+003
6	.6123837147-005	-.4111960197-005	6	-.8110903929+004	-.6673743507+004
7	.3820807355-006	-.3164901413-006	7	-.9500045976+005	-.9580271204+005
8	.2066408594-007	-.2094180024-007	8	-.1260505758+007	-.1557228603+007
9	.9791865561-009	-.1214470496-008	9	-.1850035524+008	-.2823661911+008
10	.4090268731-010	-.6264032290-010	10	-.2936475865+009	-.5644293438+009
11	.1507613795-011	-.2906867930-011	11	-.4913477561+010	-.1231797739+011
12	.4871222326-013	-.1224995266-012	12	-.8354658598+011	-.2911330740+012
13	.1350955133-014	-.4723759869-014	13	-.1342444903+013	-.7400744712+013
14	.3029183265-016	-.1677383786-015	14	-.1607942536+014	-.2011392713+015
15	.4354061862-018	-.5514056876-017	15	.1189073474+015	-.5813881634+016
16	-.3547411186-020	-.1685560127-018	16	.2151023807+017	-.1778797695+018
17	-.5841338415-021	-.4809339340-020	17	.1283882178+019	-.5735818404+019
18	-.2882323258-022	-.1284876083-021	18	.6434605474+020	-.1941390079+021
19	-.1069578744-023	-.3222510655-023	19	.3067150132+022	-.6870564071+022
20	-.3397478986-025	-.7602794799-025	20	.1449000649+024	-.2532614187+024
30	-.6387808827-042	-.9858227630-043	30	.2521474403+041	-.1351790533+040
31	-.1029837605-043	-.5504900399-045	31	.1530609760+043	.7070996656+041
40	-.1247313916-060	.1402647477-060	40	.3842284335+059	.5300460231+059
41	-.1333929197-062	.1840511635-062	41	.2655795968+061	.4558385350+061
50	.1237043518-080	.4468500461-080	50	-.7679249611+078	.1981637123+079
51	.1635075835-082	.4218604609-082	51	-.9660311201+080	.1904636682+081
60	.1518169973-100	.4760856453-101	60	-.5061769536+099	.1048423559+099
61	.1273076089-102	.2636334612-103	61	-.6189286780+101	.6494915169+100
70	.8092135624-122	-.6718566558-122	70	-.4710762144+120	-.4778816824+120
71	.5189203260-124	-.5264483326-124	71	-.5908895457+122	-.7328748677+122
80	-.2006913545-144	-.1679980937-143	80	.7920522325+141	-.3566233694+142
81	-.2262057460-146	-.1018386604-145	81	.1831029763+144	-.5558301251+144
90	-.7089964613-166	-.3469951664-166	90	.6529423257+164	-.2424124967+164
91	-.4064040207-168	-.1508738800-168	91	.1213531481+167	-.3173927674+166
99	-.2213546577-186	.1047294296-186	99	.1749777194+185	.1052629072+185
100	-.1049185123-188	.6311890917-189	100	.3240087447+187	.2418705463+187

REAL X = .1000000000+001 IMAGINARY X = -.5000000000+000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.8717112232+000	.1543066165+000	0	-.3120124954+000	-.5944928276+000
1	.3236338366+000	-.1223630451+000	1	-.8835240885+000	-.7547058767+000
2	.5184563880-001	-.5961732083-001	2	-.9027982649+000	-.2277030183+001
3	.2983360257-002	-.1241496060-001	3	.1826391394+001	-.1015901138+002
4	-.3769316699-003	-.1553049825-002	4	.3957582195+002	-.4949953766+002
5	-.1062889102-003	-.1239521497-003	5	.4613178622+003	-.2037647008+003
6	-.1302128154-004	-.5400297347-005	6	.4916586049+004	.2861687644+003
7	-.1050871577-005	.7839328879-007	7	.4918309947+005	.2874616730+005
8	-.5953711407-007	.3578735104-007	8	.4128036038+006	.6397664357+006
9	-.2187161622-008	.3462309728-008	9	.1214534149+007	.1147914186+008
10	-.2129651163-010	.2173284955-009	10	-.6919336271+008	.1830736494+009
11	.3820864196-011	.9918298501-011	11	-.2701481683+010	.2482933922+010
12	.3520666309-012	.3201475274-012	12	-.7248106168+011	.2064927903+011
13	.1899314715-013	.5318356880-014	13	-.1653412542+013	-.3143079701+012
14	.7470932690-015	-.1450296072-015	14	-.3224670377+014	-.2466655689+014
15	.2176013444-016	-.1676184691-016	15	-.4603380551+015	-.9460115757+015
16	.4049666414-018	-.8385290408-018	16	.3464064760+015	-.2914461240+017
17	-.4317654638-021	-.2976010515-019	17	.3943143527+018	-.7638991904+018
18	-.4146022943-021	-.7986198393-021	18	.2173504414+020	-.1583963178+020
19	-.2088882497-022	-.1515604942-022	19	.8773895424+021	-.1464105483+021
20	-.6946738771-024	-.1145723647-024	20	.2963682323+023	.9135107387+022
30	.3701768349-041	-.1541509148-040	30	.2086276108+039	-.9014456884+039
31	-.6366238416-043	-.2740977483-042	31	.3218041150+041	-.3888298654+041
40	.1272636637-058	.4072063406-059	40	-.8168477532+057	-.1265192684+057
41	.1778752082-060	-.2763200775-061	41	-.4882136873+059	-.3466788648+059
50	-.3593139869-078	.8881907607-078	50	-.7298285667+075	.9215330915+076
51	.8241362792-081	.1036809668-079	51	-.4313087004+078	.7150168902+078
60	-.8554675488-098	-.4233530936-098	60	.7745134928+096	.3073564284+094
61	-.8676389126-100	.3618142704-102	61	.7481762404+098	.3778720315+098
70	.9337682252-119	-.1575978979-118	70	-.2468512958+116	-.3454342144+117
71	.1018779524-121	-.1428632175-120	71	.1669942742+119	-.4035482433+119
80	.7010701495-140	.4903780826-140	80	-.6423934569+138	.9498684266+137
81	.5805464892-142	.8577406136-143	81	-.8885368840+140	-.2913845103+140
90	-.7340556505-162	.8967786921-162	90	.9404062945+159	.4159238297+160
91	-.1560848631-164	.6906245642-164	91	-.1649748940+162	.6703225121+162
99	-.3178058882-182	-.8828588856-182	99	.3466641190+180	-.3305891107+180
100	-.3777447911-184	-.3601744475-184	100	.8150290034+182	-.2503276450+182

REAL X = .1000000000+001 IMAGINARY X = -.1000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9667107481+000	.3317468333+000	0	.7758384032-001	-.9113138654+000
1	.3950657977+000	-.2620850747+000	1	-.4722618952+000	-.7486118459+000
2	.1901556057-001	-.1322757489+000	2	.3369410857+000	-.9199967462+000
3	-.1683752413-001	-.2106539599-001	3	.3614606475+001	-.7090273054+000
4	-.4218009054-002	-.3844715465-003	4	.1479577715+002	.1108952384+002
5	-.4133946573-003	.3542332861-003	5	.1306353340+002	.1171928817+003
6	-.3944634358-005	.5908400489-004	6	-.5875071930+003	.7053207594+003
7	.3708502141-005	.4172622399-005	7	-.8416445224+004	.6485953002+003
8	.4637324268-006	.2442915699-007	8	-.6740029674+005	-.5896419519+005
9	.2557565178-007	-.2324893692-007	9	-.6329041795+005	-.1074746777+007
10	.1011658605-009	-.2325365821-008	10	.9676235705+007	-.1075238915+008
11	-.9706912297-010	-.1051626675-009	11	.2145638514+009	-.1022486444+008
12	-.8090098586-011	-.2997691419-012	12	.2575393997+010	.2360650740+010
13	-.3099950811-012	.2893208825-012	13	.2469726864+010	.6171078407+011
14	-.6669220491-015	.2066746151-013	14	-.8023296663+012	.8640762469+012
15	.6465194864-015	.6869396351-015	15	-.2416535547+014	.8336146345+012
16	.4040974388-016	.1154876637-017	16	-.3866817069+015	-.3625060592+015
17	.1185823079-017	-.1123396611-017	17	-.3747328325+015	-.1236243175+017
18	.1600694179-020	-.6241345333-019	18	.2101714128+018	-.2225378742+018
19	-.1561349869-020	-.1639433168-020	19	.8005496544+019	-.2164171036+018
20	-.7806984744-022	-.1815903988-023	20	.1601171447+021	.1521095870+021
30	-.2918421562-039	.1838451451-037	30	-.4381730556+036	.4532839395+036
31	.2873299288-039	.2963097073-039	31	-.2718970345+038	.4457726822+036
40	.1622561948-054	.1954988406-056	40	-.3851947912+053	-.3755644142+053
41	.1977900170-056	-.1931900396-056	41	-.3804004479+053	-.3081087289+055
50	.1183466180-074	-.1218931892-072	50	.4019918326+071	-.4101960292+071
51	-.1172159954-074	-.1194702180-074	51	.4101557160+073	-.4061080275+071
60	-.1272568351-091	-.1034631200-093	60	.3274222328+090	.3219650682+090
61	-.1042886527-093	.1026332423-093	61	.3247014243+090	.3928797835+092
70	-.1790136080-113	.2559852881-111	70	-.1375239195+110	.1395170544+110
71	.1777762316-113	.1802453853-113	71	-.1953140321+112	.1385229117+110
80	.1253247975-131	.7688734318-134	80	-.2493522194+130	-.2462352759+130
81	.7735239703-134	-.7642042910-134	81	-.2477970565+130	-.3989481322+132
90	.9724830108-155	-.1779626200-152	90	.1543534414+151	-.1560877678+151
91	-.9672163751-155	-.9777303061-155	91	.2809493923+153	-.1552222377+151
99	-.8402586018-172	-.8486612575-172	99	.2975273586+170	-.1510304130+168
100	-.8402588374-174	-.4139239571-176	100	.2975274489+172	.2945521495+172

REAL X = .1000000000+001 IMAGINARY X = -.3000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.2470968822+001	.2000225544+001	0	.1984967225+001	-.2474849405+001
1	.1631996444+001	-.1533536204+001	1	-.1530017278+001	-.1652220317+001
2	-.6011873053+000	-.9914896055+000	2	-.9569741234+000	.6021677599+000
3	-.4453556886+000	.1360104436+000	3	.1482785768+000	.5178430119+000
4	.3816391611-002	.1514499699+000	4	-.2670119782-001	.7170735962-001
5	.3987552231-001	.1059878664-001	5	-.3659195258+000	-.5253996223+000
6	.5070687016-002	-.8202080986-002	6	.1358008473+001	-.1957181379+001
7	-.1295513341-002	-.1485812559-002	7	.9374337920+001	.3407296875+001
8	-.3278005135-003	.1435521143-003	8	-.2629337529+001	.4915264733+002
9	.6136684778-005	.5806853405-004	9	-.2645227131+003	.6674258219+002
10	.8469570534-005	.1757203593-005	10	-.8803965359+003	-.1430121206+004
11	.5790307089-006	-.1020112143-005	11	.7425453585+004	-.8616495290+004
12	-.9902611553-007	-.1081496303-006	12	.7741275729+005	.3284781177+005
13	-.1547377086-007	.7042200981-008	13	-.6025214867+005	.6713317044+006
14	.2051062720-009	.1826028960-008	14	-.5677880364+007	.1291705386+007
15	.1821270967-009	.3770756843-010	15	-.2764343776+008	-.4632294525+008
16	.8807341317-011	-.1535349825-010	16	.3507866142+009	-.4019768069+009
17	-.1063237638-011	-.1181433630-011	17	.5164809652+010	.2192586963+010
18	-.1236199311-012	.5448535031-013	18	-.5296115939+010	.6230653253+011
19	.1056504384-014	.1084819126-013	19	-.7163629497+012	.1695546965+012
20	.8164604592-015	.1836968970-015	20	-.4772309336+013	-.7782489727+013
30	.5753765827-027	.1625063165-027	30	-.4876378106+025	-.7124476241+025
31	.1680236148-028	-.2479554686-028	31	.1010756400+027	-.1328247061 027
40	.1531063078-040	.5411718535-041	40	-.1476720033+039	-.1889718694+039
41	.3792257992-042	-.4879636232-042	41	.3404903575+040	-.5122322221+040
50	.3465692331-055	.1500817579-055	50	-.5529649943+053	-.6159178931+053
51	.7725566472-057	-.8635039536-057	51	.1310158866+055	-.2298615150+055
60	.1086103202-070	.5652368208-071	60	-.1533124756+069	-.1481789833+069
61	.2259608179-072	-.2189232118-072	61	.3528836072+070	-.7360829035+070
70	.6522276586-087	.4020061595-087	70	-.2244440670+085	-.1875482738+085
71	.1298657510-088	-.1087142716-088	71	.4774289669+086	-.1214190986+087
80	.9468537463-104	.6841522534-104	80	-.1364795682+102	-.9802876726+101
81	.1839225812-105	-.1322966902-105	81	.2540175034+103	-.8172184875+103
90	.3955430334-121	.3328947006-121	90	-.2881275514+119	-.1762856982+119
91	.7616101538-123	-.4665462102-123	91	.4361767014+120	-.1883994119+121
99	-.2114823976-137	.4352421958-137	99	-.2346623141+135	.2295355033+135
100	.5443715711-139	.5319994602-139	100	-.1837535415+137	-.9446320982+136

REAL X = .1000000000+001 IMAGINARY X = -.1000000000+002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.6809115557+003	.8586404396+003	0	.8586404355+003	-.6809115577+003
1	.7803682292+003	-.6049931815+003	1	-.6049931793+003	-.7803682336+003
2	-.4780313563+003	-.6448179907+003	2	-.6448179853+003	.4780313589+003
3	-.4848163207+003	.3364223125+003	3	.3364223093+003	.4848163280+003
4	.2112662462+003	.3321230772+003	4	.3321230666+003	-.2112662505+003
5	.2076907689+003	-.1185701357+003	5	-.1185701296+003	-.2076907860+003
6	-.5951066814+002	-.1188387892+003	6	-.1188387593+003	.5951067723+002
7	-.6238974003+002	.2667616426+002	7	.2667615031+002	.6238979692+002
8	.1062679943+002	.3014256608+002	8	.3014244952+002	-.1062682079+002
9	.1344339703+002	-.3715970930+001	9	-.3715940642+001	-.1344365370+002
10	-.1107403189+001	-.5552051349+001	10	-.5551446246+001	.1107433243+001
11	-.2129780034+001	.2590625346+000	11	.2590955705+000	.2131301092+001
12	.3245936942-001	.7610516509+000	12	.7569902751+000	-.3206783389-001
13	.2540233213+000	.9661610266-002	13	.7654086412-002	-.2655003698+000
14	.9619768037-002	-.7939659908-001	14	-.4519066944-001	-.1844609337-001
15	-.2329077670-001	-.4837537421-002	15	.3233440530-001	.1304485792+000
16	-.1920535139-002	.6425268003-002	16	-.3452716375+000	.1577289805+000
17	.1669825212-002	.6618666106-003	17	-.6604980449+000	-.1207028619+001
18	.2055902750-003	-.4093852747-003	18	.4299158618+001	-.2864860836+001
19	-.9478172896-004	-.5868694134-004	19	.1273047209+002	.1590691810+002
20	-.1557621864-004	.2073512606-004	20	-.6080618484+002	.5816440459+002
30	.1416632738-011	.4997725807-014	30	-.1233289634+009	-.1087565199+010
31	.2173787040-013	-.2196849188-012	31	.6675199431+010	-.1405093034+010
40	-.1947222342-020	-.2805079655-020	40	.3063470534+018	.1679102280+018
41	-.3559401027-021	.1990340554-021	41	-.1125545441+019	.2627655369+019
50	-.2699328568-030	.7016497767-030	50	-.1145899134+028	.5830902269+027
51	.6497010553-031	.3260514131-031	51	-.7023889486+028	-.1099621446+029
60	.2327337503-040	-.5260182535-041	60	.4069540531+037	-.3376324173+038
61	-.2393803454-042	-.1922297944-041	61	.4121499755+039	.8922270731+037
70	-.1077260239-051	-.1030505403-051	70	.3567044170+049	.3040852014+049
71	-.7915546902-053	.6787954077-053	71	-.3771469254+050	.5427628761+050
80	-.4128529695-064	.2260638562-063	80	-.2563799252+061	.7422995947+060
81	.1356876501-064	.3895426804-065	81	-.1595011636+062	-.3985045020+062
90	.9550447634-076	-.4039140231-076	90	.1553498128+073	-.5035622780+073
91	-.1683573673-077	-.5422738891-077	91	.9329820632+074	.1893007475+074
99	.1483174498-087	-.2766993090-087	99	.1314469535+085	-.8852954192+084
100	-.1300102237-088	-.8728119757-089	100	.2007104976+086	.2422567514+086

REAL X = .1000000000+001 IMAGINARY X = -.1000000000+003

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.7374340646+041	.1123611949+042	0	.1123611949+042	-.7374340646+041
1	.1112450689+042	-.7299481113+041	1	-.7299481113+041	-.1112450689+042
2	-.7152041090+041	-.1090460728+042	2	-.1090460728+042	.7152041090+041
3	-.1058290670+042	.6936463057+041	3	.6936463057+041	.1058290670+042
4	.6659129933+041	.1016873292+042	4	.1016873292+042	-.6659129933+041
5	.9673804868+041	-.6328050345+041	5	-.6328050345+041	-.9673804868+041
6	-.5952473875+041	-.9111680943+041	6	-.9111680943+041	.5952473875+041
7	-.8497142228+041	.5542462114+041	7	.5542462114+041	.8497142228+041
8	.5108443248+041	.7845549915+041	8	.7845549915+041	-.5108443248+041
9	.7172215589+041	-.4660777496+041	9	-.4660777496+041	-.7172215589+041
10	-.4209358222+041	-.6491819803+041	10	-.6491819803+041	.4209358222+041
11	-.5817908513+041	.3763269199+041	11	.3763269199+041	.5817908513+041
12	.3330513001+041	.5162489298+041	12	.5162489298+041	-.3330513001+041
13	.4535740688+041	-.2917819270+041	13	-.2917819270+041	-.4535740688+041
14	-.2530535296+041	-.3945839089+041	14	-.3945839089+041	.2530535296+041
15	-.3398899589+041	.2172595623+041	15	.2172595623+041	.3398899589+041
16	.1846562462+041	.2899019945+041	16	.2899019945+041	-.1846562462+041
17	.2448411712+041	-.1553725132+041	17	-.1553725132+041	-.2448411712+041
18	-.1294244457+041	-.2047599026+041	18	-.2047599026+041	.1294244457+041
19	-.1695664051+041	.1067327206+041	19	.1067327206+041	.1695664051+041
20	.8714160392+040	.1390518330+041	20	.1390518330+041	-.8714160392+040
30	-.6637011559+039	-.1120129243+040	30	-.1120129243+040	.6637011559+039
31	-.8257792265+039	.4859658009+039	31	.4859658009+039	.8257792265+039
40	.1901050398+038	.3469931356+038	40	.3469931355+038	-.1901050396+038
41	.2328404450+038	-.1264098075+038	41	-.1264098077+038	-.2328404452+038
50	-.2104978018+036	-.4253851015+036	50	-.4253840384+036	.2104968567+036
51	-.2606325883+036	.1274904597+036	51	.1274920071+036	.2606343132+036
60	.9290534155+033	.2133496968+034	60	.1934810730+034	-.7345112937+033
61	.1197764349+034	-.5141297161+033	61	-.8617227947+033	-.1549106069+034
70	-.1685723426+031	-.4538708471+031	70	.8622030270+035	-.9414633688+035
71	-.2343445678+031	.8548921910+030	71	.1828302705+036	.1655199959+036
80	.1292412883+028	.4251823240+028	80	-.8352066451+038	.1029487003+039
81	.2026653378+028	-.6020624377+027	81	-.2164267800+039	-.1733468658+039
90	-.4261421535+024	-.1821219887+025	90	.1734395607+042	-.2445357233+042
91	-.8043968816+024	.1824944230+024	91	.5543689201+042	.3876333108+042
99	-.8946452641+021	.1514074355+021	99	.5021035509+045	.3114346960+045
100	.5993675054+020	.3701007335+021	100	-.7414203604+045	.1214356498+046

REAL X = .1300000000+001 IMAGINARY X = .0000000000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.7411986042+000	.0000000000	0	-.2057683297+000	.0000000000
1	.3643844427+000	.0000000000	1	-.8994819347+000	.0000000000
2	.9968857135-001	.0000000000	2	-.1869959212+001	.0000000000
3	.1903313940-001	.0000000000	3	-.6292668880+001	.0000000000
4	.2797563871-002	.0000000000	4	-.3201364245+002	.0000000000
5	.3346104780-003	.0000000000	5	-.2153402404+003	.0000000000
6	.3375555813-004	.0000000000	6	-.1790096084+004	.0000000000
7	.2945103335-005	.0000000000	7	-.1768562060+005	.0000000000
8	.2264034287-006	.0000000000	8	-.2022747570+006	.0000000000
9	.1555688553-007	.0000000000	9	-.2627445817+007	.0000000000
10	.9664368165-009	.0000000000	10	-.3819885641+008	.0000000000
11	.5478611822-010	.0000000000	11	-.6144310040+009	.0000000000
12	.2856044333-011	.0000000000	12	-.1083250352+011	.0000000000
13	.1378112538-012	.0000000000	13	-.2077029444+012	.0000000000
14	.6189400389-014	.0000000000	14	-.4302997880+013	.0000000000
15	.2599856276-015	.0000000000	15	-.9578224977+014	.0000000000
16	.1025688560-016	.0000000000	16	-.2279735266+016	.0000000000
17	.3814684447-018	.0000000000	17	-.5777442065+017	.0000000000
18	.1341867757-019	.0000000000	18	-.1553185436+019	.0000000000
19	.4477629521-021	.0000000000	19	-.4414827261+020	.0000000000
20	.1421099638-022	.0000000000	20	-.1322894993+022	.0000000000
30	.1450539521-038	.0000000000	30	-.8701467998+037	.0000000000
31	.2994413060-040	.0000000000	31	-.4081078285+039	.0000000000
40	.5532791242-056	.0000000000	40	-.1717320406+055	.0000000000
41	.8667894445-058	.0000000000	41	-.1069740039+057	.0000000000
50	.1794130639-074	.0000000000	50	-.4246442175+073	.0000000000
51	.2264790688-076	.0000000000	51	-.3298601209+075	.0000000000
60	.8080026373-094	.0000000000	60	-.7869711475+092	.0000000000
61	.8540804167-096	.0000000000	61	-.7324025475+094	.0000000000
70	.7008803789-114	.0000000000	70	-.7785159155+112	.0000000000
71	.6372159210-116	.0000000000	71	-.8443175218+114	.0000000000
80	.1479319455-134	.0000000000	80	-.3230170521+133	.0000000000
81	.1179899478-136	.0000000000	81	-.4000177833+135	.0000000000
90	.9054859351-156	.0000000000	90	-.4693979417+154	.0000000000
91	.6432734677-158	.0000000000	91	-.6535122728+156	.0000000000
99	.2848922638-175	.0000000000	99	-.1356937953+174	.0000000000
100	.1842663105-177	.0000000000	100	-.2077069318+176	.0000000000

REAL X = .1300000000+001 IMAGINARY X = -.1000000000-002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.7411986945+000	.3643844779-003	0	-.2057677407+000	-.8994816052-003
1	.3643845482+000	-.1806071691-003	1	-.8994809460+000	-.1178048983-002
2	.9968854757-001	-.1343339128-003	2	-.1869954200+001	-.3415802156-002
3	.1903311298-001	-.4112506379-004	3	-.6292636231+001	-.1749204945-001
4	.2797555080-002	-.8273274782-005	4	-.3201337916+002	-.1168362590+000
5	.3346086394-003	-.1253206539-005	5	-.2153376969+003	-.9618592305+000
6	.3375527314-004	-.1528495038-006	6	-.1790067486+004	-.9423573280+001
7	.2945068038-005	-.1563180162-007	7	-.1768525409+005	-.1070435596+003
8	.2263997788-006	-.1377689503-008	8	-.2022694858+006	-.1382663309+004
9	.1555656118-007	-.1067345066-009	9	-.2627361778+007	-.2000858973+005
10	.9664115241-009	-.7379292061-011	10	-.3819738576+008	-.3205887676+006
11	.5478436044-010	-.4607147892-012	11	-.6144029825+009	-.5633371767+007
12	.2855934117-011	-.2622539474-013	12	-.1083192613+011	-.1077083914+009
13	.1378049575-012	-.1371905506-014	13	-.2076901521+012	-.2225916120+010
14	.6189070010-014	-.6639408504-016	14	-.4302694658+013	-.4944095454+011
15	.2599695969-015	-.2989524117-017	15	-.9577459318+014	-.1174520211+013
16	.1025616214-016	-.1258545380-018	16	-.2279530093+016	-.2971514314+014
17	.3814379274-018	-.4974897905-020	17	-.5776860560+017	-.7976440212+015
18	.1341746912-019	-.1853443700-021	18	-.1553011643+019	-.2264169402+017
19	.4477178594-021	-.6529820792-023	19	-.4414281013+020	-.6776202464+018
20	.1420940549-022	-.2181933798-024	20	-.1322714871+022	-.2132463330+020
30	.1450166874-038	-.3344137229-040	30	-.8698918833+037	-.2072831670+036
31	.2993590637-040	-.7133921365-042	31	-.4079805432+039	-.1003592080+038
40	.5530240522-056	-.1701282124-057	40	-.1716446449+055	-.5412374409+053
41	.8663693260-058	-.2731974679-059	41	-.1069169060+057	-.3453721955+055
50	.1792831183-074	-.6896638852-076	50	-.4243112987+073	-.1664901901+072
51	.2263083353-076	-.8879999177-078	51	-.3295913656+075	-.1318643803+074
60	.8071569213-094	-.3727131362-095	60	-.7860911530+092	-.3690429611+091
61	.8531561601-096	-.4005321779-097	61	-.7315567133+094	-.3490821934+093
70	.6998793954-114	-.3771588908-115	70	-.7773391760+112	-.4248963949+111
71	.6362794805-116	-.3477951275-117	71	-.8430053703+114	-.4672952001+113
80	.1476554939-134	-.9096795500-136	80	-.3223826765+133	-.2011030494+132
81	.1177638692-136	-.7346172193-138	81	-.3992127896+135	-.2521132216+134
90	.9033413516-156	-.6263266223-157	90	-.4682360173+154	-.3282673734+153
91	.6417157063-158	-.4498907238-159	91	-.6518590557+156	-.4620401709+155
99	.2840750214-175	-.2167347067-176	99	-.1352885982+174	-.1042649003+173
100	.1837269396-177	-.1415959665-178	100	-.2070742949+176	-.1611916371+175

REAL X = .1300000000+001 IMAGINARY X = -.1000000000-001

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.7412076346+000	.3643879597-002	0	-.2057094298+000	-.8994489805-002
1	.3643949937+000	-.1806086857-002	1	-.8993830762+000	-.1177945207-001
2	.9968619294-001	-.1343358287-002	2	-.1869458083+001	-.3415168816-001
3	.1903049717-001	-.4112489318-003	3	-.6289404543+001	-.1748715610+000
4	.2796684792-002	-.8272920964-004	4	-.3198731982+002	-.1167901163+001
5	.3344266213-003	-.1253079807-004	5	-.2150859761+003	-.9613485569+001
6	.3372706023-004	-.1528221280-005	6	-.1787237563+004	-.9417101429+002
7	.2941573894-005	-.1562747708-006	7	-.1764898868+005	-.1069512616+004
8	.2260384965-006	-.1377147049-007	8	-.2017479689+006	-.1381201461+005
9	.1552445653-007	-.1066778980-008	9	-.2619048290+007	-.1998314267+006
10	.9639082470-009	-.7374226056-010	10	-.3805192033+008	-.3201060132+007
11	.5461040063-010	-.4603175701-011	11	-.6116317075+009	-.5623460729+008
12	.2845027543-011	-.2619766529-012	12	-.1077483140+011	-.1074894940+010
13	.1371819522-012	-.1370160412-013	13	-.2064254055+012	-.2220741453+011
14	.6156383527-014	-.6629408320-015	14	-.4272720661+013	-.4931059876+012
15	.2583837613-015	-.2984263051-016	15	-.9501786203+014	-.1171034375+014
16	.1018460342-016	-.1255986810-017	16	-.2259255848+016	-.2961653109+015
17	.3784198130-018	-.4963328540-019	17	-.5719410190+017	-.7947017701+016
18	.1329797326-019	-.1848555064-020	18	-.1535845105+019	-.2254935756+018
19	.4432596340-021	-.6510433165-022	19	-.4360336854+020	-.6745797538+019
20	.1405214380-022	-.2174689733-023	20	-.1304931183+022	-.2121981789+021
30	.1413411796-038	-.3317733862-039	30	-.8447942335+037	-.2051568234+037
31	.2912495663-040	-.7073573849-041	31	-.3954529476+039	-.9926548232+038
40	.5279463583-056	-.1676787932-056	40	-.1630727959+055	-.5317574800+054
41	.8250803948-058	-.2690577394-058	41	-.1013191235+057	-.3390362004+056
50	.1665609395-074	-.6739365195-075	50	-.3918144222+073	-.1620513977+073
51	.2096007854-076	-.8669109759-077	51	-.3033716164+075	-.1292146082+075
60	.7247870855-094	-.3603809118-094	60	-.7006886854+092	-.3551437758+092
61	.7631884433-096	-.3868267849-096	61	-.6495214319+094	-.3355155960+094
70	.6029890219-114	-.3601065724-114	70	-.6639099802+112	-.4034467350+112
71	.5456976722-116	-.3316140307-116	71	-.7166161485+114	-.4430601894+114
80	.1210881851-134	-.8558831784-135	80	-.2617076286+133	-.1880164561+133
81	.9605428651-137	-.6900792302-137	81	-.3222830812+135	-.2353152069+135
90	.6989281255-156	-.5794674957-156	90	-.3580760632+154	-.3015504027+154
91	.4933641384-158	-.4154839747-158	91	-.4952669519+156	-.4236391911+156
99	.2066185610-175	-.1971460425-175	99	-.9720827703+173	-.9409952737+173
100	.1327878402-177	-.1285417472-177	100	-.1476802019+176	-.1451745519+176

REAL X = .1300000000+001 IMAGINARY X = -.1000000000+000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.7421020230+000	.3647362616-001	0	-.1999041293+000	-.8962069602-001
1	.3654401455+000	-.1807603937-001	1	-.8896980809+000	-.1167661660+000
2	.9945055315-001	-.1345274961-001	2	-.1820562145+001	-.3352601697+000
3	.1876866051-001	-.4110781735-002	3	-.5972668893+001	-.1700570408+001
4	.2709657348-002	-.8237512345-003	4	-.2945054823+002	-.1122712744+002
5	.3162613006-003	-.1240405187-003	5	-.1907726250+003	-.9115994980+002
6	.3091981064-004	-.1500875760-004	6	-.1516298036+004	-.8790300317+003
7	.2595278660-005	-.1519628100-005	7	-.1421081429+005	-.9806954745+004
8	.1904105499-006	-.1323188481-006	8	-.1528369059+006	-.1241514035+006
9	.1237733652-007	-.1010637626-007	9	-.1848517498+007	-.1756998976+007
10	.7202306127-009	-.6873601706-009	10	-.2474133024+008	-.2747000028+008
11	.3781176772-010	-.4212278498-010	11	-.3615346090+009	-.4699417076+009
12	.1801305063-011	-.2348185380-011	12	-.5698210953+010	-.8727110386+010
13	.7816052593-013	-.1200163065-012	13	-.9574086540+011	-.1747515965+012
14	.3094047019-014	-.5661054226-014	14	-.1693522416+013	-.3751438403+013
15	.1116092750-015	-.2478158435-015	15	-.3106109660+014	-.8590786182+014
16	.3648802826-017	-.1011620892-016	16	-.5779816667+015	-.2089411050+016
17	.1066842481-018	-.3866937509-018	17	-.1049856069+017	-.5376295894+017
18	.2703890186-020	-.1389155095-019	18	-.1697244625+018	-.1458475056+019
19	.5449096774-022	-.4704884096-021	19	-.1617377284+019	-.4158190216+020
20	.5785558378-024	-.1506528367-022	20	.4732760101+020	-.1242371061+022
30	-.1057260261-038	-.1180701598-038	30	.5734268684+037	-.5492522475+037
31	-.2370178053-040	-.2269330042-040	31	.2870781443+039	-.2355032985+039
40	-.6209823165-056	-.4496520340-057	40	.1521577775+055	.6708473126+052
41	-.9782732435-058	.4426842938-060	41	.9419129959+056	.7667218519+055
50	-.1596078159-074	.1332775381-074	50	.2616365720+073	.2549527098+073
51	-.1885320633-076	.1837433535-076	51	.1868916466+075	.2124269255+075
60	-.1031305242-094	.9589586436-094	60	.1997768215+091	.6570407194+092
61	-.3102172691-097	.1022030333-095	61	-.2828831372+093	.6093062354+094
70	.5287988348-114	.6803177902-114	70	-.4245578747+112	.4673281883+112
71	.5283509887-116	.5815322735-116	71	-.4964976872+114	.4686296510+114
80	.1854198481-134	.2655185033-135	80	-.2538109202+133	.1664327645+132
81	.1495192433-136	.9800038129-138	81	-.3140416006+135	-.3549534269+133
90	.9572256278-156	-.6914599128-156	90	-.2739463386+154	-.2318353351+154
91	.6422393498-158	-.5435403487-158	91	-.3544691252+156	-.3500392989+156
99	.9594628111-176	-.3692619982-175	99	-.1783357510+173	-.9944068502+173
100	.4368381124-178	-.2436099239-177	100	-.1549641384+175	-.1534064303+176

REAL X = .1300000000+001 IMAGINARY X = -.5000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.7640151492+000	.1866270698+000	0	-.7272030349-001	-.4142044606+000
1	.3911488507+000	-.9223396295-001	1	-.7059915225+000	-.4829291062+000
2	.9362993430-001	-.6961116299-001	2	-.9731422112+000	-.1102502136+001
3	.1226482482-001	-.2034225028-001	3	-.1133786329+001	-.4465070592+001
4	.6008810910-003	-.3681389533-002	4	.3710405858+001	-.2188739195+002
5	-.1016487064-003	-.4661479781-003	5	.7428069990+002	-.1189295993+003
6	-.2859378307-004	-.4282900955-004	6	.8809941325+003	-.6441690101+003
7	-.3942206901-005	-.2754007125-005	7	.9758657138+004	-.2540861333+004
8	-.3845577097-006	-.9351143204-007	8	.1070315183+006	.1283135073+005
9	-.2886434318-007	.3830228143-008	9	.1153298082+007	.6176649629+006
10	-.1698189186-008	.9317283959-009	10	.1155206409+008	.1349884719+008
11	-.7571503139-010	.8997740176-010	11	.8834848242+008	.2518643975+009
12	-.2130174357-011	.6210496669-011	12	-.1429030675+009	.4392043953+010
13	.1303399148-013	.3390736414-012	13	-.3078159544+011	.7240542433+011
14	.6462470917-014	.1498977389-013	14	-.1060634019+013	.1091421799+013
15	.5141694398-015	.5244533942-015	15	-.2873804242+014	.1320976393+014
16	.2825115260-016	.1285399946-016	16	-.7014622787+015	.4370952093+014
17	.1234403069-017	.7268556288-019	17	-.1585473559+017	-.5012688708+016
18	.4438465643-019	-.1418151817-019	18	-.3259317424+018	-.2606288688+018
19	.1297993347-020	-.1043748436-020	19	-.5579858015+019	-.9565083097+019
20	.2841428466-022	-.4896464871-022	20	-.4935431617+020	-.3057996517+021
30	.1072779291-039	.1151062280-037	30	-.3755487364+036	.9518585098+036
31	.9367596358-040	.2367228659-039	31	-.3031562546+038	.3298003142+038
40	-.4512212176-055	-.7494271738-055	40	.7995223172+053	-.6231640602+053
41	-.1158596935-056	-.9019521178-057	41	.5639689386+055	-.1711793814+055
50	.4968357087-073	.2696034223-073	50	-.1247236047+072	.1633863735+071
51	.7580624854-075	.9901582027-076	51	-.8865099506+073	-.2141710243+073
60	-.5070537728-092	.1724465003-093	60	.1076961247+091	.4565924412+090
61	-.5289310329-094	.2244112218-094	61	.7306990338+092	.7060683029+092
70	.7408450424-112	-.4695257558-112	70	-.3462192142+110	-.4661052383+110
71	.5093180073-114	-.6859578996-114	71	-.1576908613+112	-.5661830107+112
80	-.1688155006-132	.3280904509-132	80	.1304538286+130	.1201658839+131
81	-.3398355273-135	.3134695533-134	81	-.3579327411+132	.1350466305+133
90	-.2491196860-154	-.4494573215-153	90	.3613251626+151	-.8037809614+151
91	-.1405175508-155	-.3124879684-155	91	.8132023357+153	-.8062703586+153
99	.5715414663-173	.2572044199-172	99	-.7570635860+170	.1141111407+171
100	.1009549778-174	.1521358204-174	100	-.1594787948+173	.1133295655+173

REAL X = .1300000000+001 IMAGINARY X = -.1000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.8354153576+000	.4008080115+000	0	.2214761296+000	-.7006912308+000
1	.4762091978+000	-.1964288618+000	1	-.4679022724+000	-.6570988927+000
2	.7406510959-001	-.1545050255+000	2	-.1670234100+000	-.7738041219+000
3	-.1005739868-001	-.3924292912-001	3	.1502611731+001	-.1523140454+001
4	-.5969133429-002	-.4421534291-002	4	.9213770597+001	-.4686851020+000
5	-.1111765819-002	.4064210934-004	5	.4014024399+002	.3031136338+002
6	-.1071916314-003	.9133286228-004	6	.8022135650+002	.3257457038+003
7	-.3054173758-005	.1513267302-004	7	-.1110383078+004	.2403881956+004
8	.6687750229-006	.1334244622-005	8	-.2153401294+005	.1090843718+005
9	.1165415757-006	.5542420426-007	9	-.2447428207+006	-.4887293708+005
10	.9855846732-008	-.2174813976-008	10	-.1880533595+007	-.2188334139+007
11	.4605466892-009	-.5541820197-009	11	-.1756576966+007	-.3684061684+008
12	.1600278966-011	-.4729328644-010	12	.2973498779+009	-.4223230836+009
13	-.1683779388-011	-.2332788942-011	13	.7519209410+010	-.2302101120+010
14	-.1561730474-012	-.4609472824-013	14	.1209223455+012	.4585537319+011
15	-.8033536879-014	.3127370015-014	15	.1192840122+013	.1948582989+013
16	-.2210071509-015	.3673558799-015	16	-.4706281351+013	.4289315513+014
17	.2328400376-017	.1996502817-016	17	-.6024469625+015	.6243744915+015
18	.6228501855-018	.6377242058-018	18	-.1830921342+017	.2679558769+016
19	.3713802706-019	.5228766480-020	19	-.3636417315+018	-.2045478391+018
20	.1304490843-020	-.7422296801-021	20	-.3869895270+019	-.9130041257+019
30	.1085705444-035	-.1119393843-035	30	-.7410135139+033	-.6368995146+034
31	.4610442760-038	-.4034173432-037	31	.1227066803+036	-.2044310837+036
40	.2861993225-052	-.5347942595-052	40	.2020712997+050	-.1224682622+051
41	-.1965214988-054	-.1182491094-053	41	.4479932583+052	-.4183279544+052
50	.4273870938-070	-.1961227473-069	50	.1282861105+068	-.2720575255+068
51	-.1365465678-071	-.2890130505-071	51	.1647756168+070	-.8457680320+069
60	-.5650021123-089	-.9211504668-088	60	.3586600034+086	-.4117462266+086
61	-.8088116325-090	-.9275433490-090	61	.3949341391+088	-.7936658909+087
70	-.2699150688-107	-.7715958597-107	70	.4428426449+105	-.2894112265+105
71	-.7850452546-109	-.5126175917-109	71	.4534368081+107	.3497244478+106
80	-.1011433885-126	-.1442847842-126	80	.2050839712+125	-.6431861828+124
81	-.1691942426-128	-.5300759798-129	81	.1980518615+127	.7271939524+126
90	-.8532596651-147	-.6967388116-147	90	.3056741895+145	-.8934697036+143
91	-.9868946429-149	-.2861374465-150	91	.2733698132+147	.1978790442+147
99	-.1357009979-165	-.2456188990-165	99	.1001184904+164	-.4357202957+163
100	-.2099746418-167	-.9133322408-168	100	.1285141458+166	.3216965139+165

REAL X = .1300000000+001 IMAGINARY X = -.3000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.1931741907+001	.2396504548+001	0	.2381422080+001	-.1929645498+001
1	.1943793533+001	-.1096092492+001	1	-.1100611393+001	-.1962853745+001
2	-.2997842637+000	-.1159892661+001	2	-.1130411858+001	.2869296760+000
3	-.4985370128+000	-.2982577260-001	3	.1065608702-001	.5511479470+000
4	-.6601045965-001	.1551506777+000	4	.5677888382-001	.2031754825+000
5	.3442188881-001	.3291094740-001	5	-.4616780783+000	-.1853684326+000
6	.1046057620-001	-.4865469225-002	6	-.1021332564+000	-.1876341542+001
7	-.1340461954-003	-.2439848989-002	7	.7145613353+001	-.3153580964+001
8	-.4344486360-003	-.1494170309-003	8	.2641182491+002	.2620354192+002
9	-.5127151095-004	.5827772422-004	9	-.7755527730+002	.1833314432+003
10	.5240347782-005	.1068771973-004	10	-.1183147803+004	-.1613470750+002
11	.1667689753-005	-.1003005547-006	11	-.2848866468+004	-.7197249977+004
12	.7159439544-007	-.2039399034-006	12	.3967043882+005	-.3350300099+005
13	-.1920419589-007	-.1742322467-007	13	.3935892160+006	.1684634221+006
14	-.2631446681-008	.1218195873-008	14	-.2381970981+005	.3573937295+007
15	.9754282033-011	.3034981152-009	15	-.2956389303+008	.1224174437+008
16	.2787070828-010	.1081462971-010	16	-.2179282023+009	-.2146216224+009
17	.1939361034-011	-.1987569428-011	17	.1142606057+010	-.2891770241+010
18	-.9374691607-013	-.2254342369-012	18	.3348494887+011	-.8706833294+009
19	-.2037379049-013	-.2036754648-015	19	.1585647737+012	.3466662750+012
20	-.6516946387-015	.1481025144-014	20	-.3075647732+013	.3380483281+013
30	-.1572429252-026	.3803715144-027	30	.5397119519+024	.3039568170+025
31	-.1415193740-028	.8260589284-028	31	-.4819627966+026	.3174812632+026
40	-.4716274582-040	-.3934633664-040	40	.5484834498+038	.2746416477+038
41	-.2157412318-041	.1089660966-041	41	-.8596927743+038	.1518948957+040
50	.1254049187-055	-.1991796737-054	50	.1348602835+053	-.6906711313+052
51	-.5641327778-056	-.2873169718-056	51	.3614403538+054	.2979185433+054
60	.7625035494-070	-.4850688790-070	60	.4358090741+067	-.2760018934+068
61	-.3782187350-072	-.2371120066-071	61	.1001994800+070	-.2577297800+069
70	.7344508805-086	.2903531990-086	70	-.1942209500+084	-.1939218476+084
71	.1275885376-087	-.1276878041-087	71	.4349145541+085	-.1101279472+086
80	.4162928839-103	.1629134331-102	80	-.1114838946+101	.1791485451+100
81	.3329668656-104	.5320166137-105	81	-.2991612028+102	-.4688605125+102
90	-.6651802135-120	.7982849335-120	90	-.7313967947+117	.1451638322+118
91	.8363324478-122	.1656996629-121	91	-.8935412372+119	-.5221851764+118
99	-.4373073940-136	-.1238495754-135	99	.1166885910+134	-.8166511044+132
100	-.2130983231-137	-.1478858353-138	100	.3279312323+135	.6320858947+135

REAL X = .1300000000+001 IMAGINARY X = -.1000000000+002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4253685405+003	.1005891163+004	0	.1005891158+004	-.4253685411+003
1	.9124116368+003	-.3706793493+003	1	-.3706793486+003	-.9124116417+003
2	-.2810201693+003	-.7509329598+003	2	-.7509329538+003	.2810201700+003
3	-.5611478263+003	.1845049693+003	3	.1845049687+003	.5611478342+003
4	.1037973051+003	.3811684537+003	4	.3811684423+003	-.1037973054+003
5	.2357398967+003	-.4878436386+002	5	-.4878436431+002	-.2357399146+003
6	-.1787577346+002	-.1330243665+003	6	-.1330243357+003	.1787577078+002
7	-.6865299455+002	.3824561086+001	7	.3824570076+001	.6865305142+002
8	-.9305748166+000	.3248969995+002	8	.3248958701+002	.9306016649+000
9	.1413618174+002	.1680647392+001	9	.1680568974+001	-.1413642158+002
10	.1224022397+001	-.5669102837+001	10	-.5668560823+001	-.1224254019+001
11	-.2100313832+001	-.6748631857+000	11	-.6741609355+000	.2101610804+001
12	-.3151901704+000	.7202328343+000	12	.7169638434+000	.3173914744+000
13	.2289214718+000	.1301687665+000	13	.1230099502+000	-.2375515672+000
14	.4859145561-001	-.6748702738-001	14	-.4377501066-001	-.7277915724-001
15	-.1844713004-001	-.1661520970-001	15	.6831306780-001	.8573204398-001
16	-.5250953421-002	.4666658981-002	16	-.1905048300+000	.3150060467+000
17	.1087867913-002	.1543767491-002	17	-.1170925445+001	-.5710583741+000
18	.4243172554-003	-.2316585845-003	18	.1632075517+001	-.4600649293+001
19	-.4427133274-004	-.1094612012-003	19	.1868241203+002	.4333244532+001
20	-.2658579791-004	.7295297292-005	20	-.8936304819+001	.7841160602+002
30	.9228277880-012	.1258979941-011	30	-.8734209759+009	-.4665580916+009
31	.2131436533-012	-.1189985141-012	31	.2212245148+010	-.5737775845+010
40	.2242531339-020	-.3187404925-020	40	.2232688622+018	-.2079408302+018
41	-.3452770282-021	-.3145378456-021	41	.1909943113+019	.1594195846+019
50	-.8472034486-030	-.2673254256-030	50	.4617539136+027	.9812451134+027
51	-.3613601005-031	.7825846697-031	51	-.9253698540+028	.5886861847+028
60	-.2201275949-042	.2918615752-040	60	-.2743703595+038	.3874218781+037
61	.2356087708-041	.3203953636-042	61	-.8857008999+038	-.3228094612+039
70	.1811273903-051	-.5307489753-052	70	.5631019169+048	-.3646667655+049
71	-.2071396855-053	-.1308440395-052	71	.5183437218+050	.1308422801+049
80	-.1635273465-063	-.2528327054-063	80	.1834362131+061	.8699939519+060
81	-.1674672008-064	.8002814071-065	81	-.1006793726+062	.3094095291+062
90	-.9165272074-076	.1066293888-075	90	-.2582852706+073	.2886462902+073
91	.5165085814-077	.5745238148-077	91	-.5749535360+074	-.3945835414+074
99	-.1282164021-087	.4198719845-087	99	-.1028102987+085	.4677216721+084
100	.2001751490-088	.9060038643-089	100	-.1178542807+086	-.1898446982+086

REAL X = .1300000000+001 IMAGINARY X = -.1000000000+003

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.3763065198+041	.1290186653+042	0	.1290186653+042	-.3763065198+041
1	.1277335878+042	-.3723763945+041	1	-.3723763945+041	-.1277335878+042
2	-.3646390388+041	-.1252018254+042	2	-.1252018254+042	.3646390388+041
3	-.1214982518+042	.3533338489+041	3	.3533338489+041	.1214982518+042
4	.3388044013+041	.1167305328+042	4	.1167305328+042	-.3388044013+041
5	.1110339125+042	-.3214810887+041	5	-.3214810887+041	-.1110339125+042
6	-.3018599402+041	-.1045648302+042	6	-.1045648302+042	.3018599402+041
7	-.9749378716+041	.2804790802+041	7	.2804790802+041	.9749378716+041
8	.2578943795+041	.8999791736+041	8	.8999791736+041	-.2578943795+041
9	.8225371144+041	-.2346558258+041	9	-.2346558258+041	-.8225371144+041
10	-.2112859828+041	-.7443030311+041	10	-.7443030311+041	.2112859828+041
11	-.6668366020+041	.1882616628+041	11	.1882616628+041	.6668366020+041
12	.1659996123+041	.5915193354+041	12	.5915193354+041	-.1659996123+041
13	.5195211632+041	-.1448466590+041	13	-.1448466590+041	-.5195211632+041
14	-.1250744115+041	-.4517806490+041	14	-.4517806490+041	.1250744115+041
15	-.3889983639+041	.1068782833+041	15	.1068782833+041	.3889983639+041
16	.9038034354+040	.3316421790+041	16	.3316421790+041	-.9038034354+040
17	.2799626035+041	-.7563530501+040	17	-.7563530501+040	-.2799626035+041
18	-.6263884525+040	-.2340159073+041	18	-.2340159073+041	.6263884525+040
19	-.1936925903+041	.5133742209+040	19	.5133742209+040	.1936925903+041
20	.4163877821+040	.1587487979+041	20	.1587487979+041	-.4163877821+040
30	-.2894695455+039	-.1269777141+040	30	-.1269777141+040	.2894695455+039
31	-.9352912820+039	.2094004586+039	31	.2094004586+039	.9352912820+039
40	.7099782764+037	.3894342051+038	40	.3894342050+038	-.7099782757+037
41	.2610145092+038	-.4624636251+037	41	-.4624636261+037	-.2610145094+038
50	-.5975286648+035	-.4712048262+036	50	-.4712036090+036	.59[illegible]5223969+035
51	-.2882774172+036	.3481526548+035	51	.3481629822+035	.2882793940+036
60	.1459156425+033	.2324891226+034	60	.2095146552+034	-.8769996256+031
61	.1302828533+034	-.7286321530+032	61	-.3193534089+033	-.1709504615+034
70	.4323192080+029	-.4848140138+031	70	.1007260977+036	-.7024351296+035
71	-.2497698893+031	-.4117341159+029	71	.1371430[illegible]+036	.1935652283+036
80	-.3894574767+027	.4434498347+028	80	-.9857257092+038	.8083055569+038
81	.2108192907+028	.2026271581+027	81	-.1707398301+039	-.2047924003+039
90	.3215463143+024	-.1846511954+025	90	.2067104321+042	-.2007982755+042
91	-.8130512979+024	-.1489523863+024	91	.4571016174+042	.4624291844+042
99	-.8805341510+021	-.2279061954+021	99	.4269800601+045	.3742325074+045
100	-.9752606223+020	.3629646504+021	100	-.8916921057+045	.1036372520+046

REAL X = .1500000000+001 IMAGINARY X = .0000000000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.6649966577+000	.0000000000	0	-.4715813445-001	.0000000000
1	.3961729707+000	.0000000000	1	-.6964354140+000	.0000000000
2	.1273492837+000	.0000000000	2	-.1345712694+001	.0000000000
3	.2832464158-001	.0000000000	3	-.3789273565+001	.0000000000
4	.4832377030-002	.0000000000	4	-.1633756394+002	.0000000000
5	.6696205963-003	.0000000000	5	-.9423611009+002	.0000000000
6	.7817400966-004	.0000000000	6	-.6747272434+003	.0000000000
7	.7887487444-005	.0000000000	7	-.5753399999+004	.0000000000
8	.7008647775-006	.0000000000	8	-.5685927275+005	.0000000000
9	.5564670144-007	.0000000000	9	-.6386516911+006	.0000000000
10	.3993440699-008	.0000000000	10	-.8032728815+007	.0000000000
11	.2614683536-009	.0000000000	11	-.1118195517+009	.0000000000
12	.1574072188-010	.0000000000	12	-.1706533731+010	.0000000000
13	.8770110325-012	.0000000000	13	-.2833040930+011	.0000000000
14	.4547670923-013	.0000000000	14	-.5082408336+012	.0000000000
15	.2205345882-014	.0000000000	15	-.9797659040+013	.0000000000
16	.1004389961-015	.0000000000	16	-.2019767127+015	.0000000000
17	.4312032068-017	.0000000000	17	-.4433690020+016	.0000000000
18	.1750854984-018	.0000000000	18	-.1032507904+018	.0000000000
19	.6743558830-020	.0000000000	19	-.2542419140+019	.0000000000
20	.2470312039-021	.0000000000	20	-.6599964685+020	.0000000000
30	.1056904243-036	.0000000000	30	-.1035308275+036	.0000000000
31	.2517822809-038	.0000000000	31	-.4207619750+037	.0000000000
40	.1688087892-053	.0000000000	40	-.4878956255+052	.0000000000
41	.3051734815-055	.0000000000	41	-.2633709650+054	.0000000000
50	.2291229428-071	.0000000000	50	-.2882109853+070	.0000000000
51	.3337436360-073	.0000000000	51	-.1940183849+072	.0000000000
60	.4318156903-090	.0000000000	60	-.1276316879+089	.0000000000
61	.5266815867-092	.0000000000	61	-.1029401376+091	.0000000000
70	.1567281210-109	.0000000000	70	-.3017456685+108	.0000000000
71	.1644179702-111	.0000000000	71	-.2836083621+110	.0000000000
80	.1384039315-129	.0000000000	80	-.2992332561+128	.0000000000
81	.1273762381-131	.0000000000	81	-.3211487961+130	.0000000000
90	.3544286196-150	.0000000000	90	-.1039348162+149	.0000000000
91	.2905345721-152	.0000000000	91	-.1254059680+151	.0000000000
99	.4043136538-169	.0000000000	99	-.8286795426+167	.0000000000
100	.3017432473-171	.0000000000	100	-.1099318425+170	.0000000000

REAL X = .1500000000+001 IMAGINARY X = -.1000000000-002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.6649967261+000	.3961730084-003	0	-.4715769373-001	-.6964352311-003
1	.3961730839+000	-.1367660403-003	1	-.6964348651+000	-.8814219218-003
2	.1273492719+000	-.1414744238-003	2	-.1345710242+001	-.1994987237-002
3	.2832461476-001	-.5181690653-004	3	-.3789259515+001	-.8758998454-002
4	.4832366113-002	-.1221671467-004	4	-.1633746572+002	-.5066912285-001
5	.6696179029-003	-.2153893079-005	5	-.9423528856+002	-.3606054374+000
6	.7817352233-004	-.3048081494-006	6	-.6747192470+003	-.3054475226+001
7	.7887417304-005	-.3610733565-007	7	-.5753311271+004	-.3000987757+002
8	.7008563690-006	-.3682287929-008	8	-.5685816783+005	-.3353995585+003
9	.5564583625-007	-.3298854540-009	9	-.6386364370+006	-.4200776284+004
10	.3993362653-008	-.2636133341-010	10	-.8032497632+007	-.5826736257+005
11	.2614620824-009	-.1901681508-011	11	-.1118157366+009	-.8865118797+006
12	.1574026744-010	-.1250477658-012	12	-.1706465639+010	-.1467791355+008
13	.8769810378-012	-.7555212952-014	13	-.2832910253+011	-.2627059928+009
14	.4547489122-013	-.4222391311-015	14	-.5082140007+012	-.5053976935+010
15	.2205244002-014	-.2195272751-016	15	-.9797072071+013	-.1039977822+012
16	.1004336867-015	-.1067020838-017	16	-.2019630860+015	-.2279214388+013
17	.4311773471-017	-.4869375368-019	17	-.4433355416+016	-.5300082042+014
18	.1750736757-018	-.2094240574-020	18	-.1032421262+018	-.1303369322+016
19	.6743049532-020	-.8516946426-022	19	-.2542183192+019	-.3379452014+017
20	.2470104615-021	-.3285039299-023	20	-.6599290572+020	-.9214182530+018
30	.1056700426-036	-.2111164027-038	30	-.1035080592+036	-.2136836398+034
31	.2517303694-038	-.5197353015-040	31	-.4206634578+037	-.8965158732+035
40	.1687503542-053	-.4498022904-055	40	-.4877091872+052	-.1332476599+051
41	.3050624178-055	-.8335059585-057	41	-.2632654082+054	-.7368476517+052
50	.2289983209-071	-.7632765298-073	50	-.2880412979+070	-.9792807815+068
51	.3335546947-073	-.1134045844-074	51	-.1938996714+072	-.6721664488+070
60	.4314762493-090	-.1726298703-091	60	-.1275245014+089	-.5187245969+087
61	.5262535324-092	-.2140645271-093	61	-.1028508516+091	-.4252313129+089
70	.1565600051-109	-.7309794826-111	70	-.3014031070+108	-.1427381530+107
71	.1642364922-111	-.7777967331-113	71	-.2832773193+110	-.1360474079+109
80	.1382096624-129	-.7376902233-131	80	-.2987918533+128	-.1614763170+127
81	.1271929211-131	-.6873940843-133	81	-.3206633673+130	-.1754408103+129
90	.3537980907-150	-.2125048184-151	90	-.1037415663+149	-.6300514011+147
91	.2900060962-152	-.1761295636-153	91	-.1251676716+151	-.7685548933+149
99	.4034424542-169	-.2666290411-170	99	-.8268207593+167	-.5519685847+166
100	.3010797951-171	-.2009953782-172	100	-.1096803272+170	-.7395491532+168

REAL X = .1500000000+001 IMAGINARY X = -.1000000000-001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.6650034961+000	.3961767436-002	0	-.4711406456-001	-.6964171174-002
1	.3961842895+000	-.1367670523-002	1	-.6963805260+000	-.8813728419-002
2	.1273481029+000	-.1414764490-002	2	-.1345467579+001	-.1994716328-001
3	.2832195901-001	-.5181694538-003	3	-.3787868832+001	-.8757181159-001
4	.4831285371-002	-.1221637061-003	4	-.1632774371+002	-.5065426994+000
5	.6693512600-003	-.2153738102-004	5	-.9415397873+002	-.3604630035+001
6	.7812527823-004	-.3047683735-005	6	-.6739278626+003	-.3052911493+002
7	.7880473893-005	-.3609997889-006	7	-.5744530762+004	-.2999055977+003
8	.7000240094-006	-.3681213852-007	8	-.5674883393+005	-.3351345274+004
9	.5556019549-007	-.3297553787-008	9	-.6371271356+006	-.4196781861+005
10	.3985637607-008	-.2634784722-009	10	-.8009625763+007	-.5820168544+006
11	.2608413943-009	-.1900457703-010	11	-.1114383308+009	-.8853437863+007
12	.1569529240-010	-.1249489599-011	12	-.1699730529+010	-.1465556314+009
13	.8740127415-012	-.7548024889-013	13	-.2819986159+011	-.2622482419+010
14	.4529499527-013	-.4217631357-014	14	-.5055605352+012	-.5043986301+011
15	.2195163634-014	-.2192379680-015	15	-.9739035249+013	-.1037663103+013
16	.9990840907-016	-.1065395708-016	16	-.2006159290+015	-.2273540753+014
17	.4286192040-017	-.4860888641-018	17	-.4400280875+016	-.5285414353+015
18	.1739042620-018	-.2090099570-019	18	-.1023858275+018	-.1299380771+017
19	.6692679339-020	-.8497984270-021	19	-.2518867893+019	-.3368071698+018
20	.2449592710-021	-.3276859248-022	20	-.6532689152+020	-.9180187790+019
30	.1036578768-036	-.2098646469-037	30	-.1012633261+036	-.2120366632+035
31	.2466065336-038	-.5164333357-039	31	-.4109530801+037	-.8891742617+036
40	.1629953128-053	-.4449352712-054	40	-.4693806023+052	-.1314926970+052
41	.2941272535-055	-.8240132570-056	41	-.2528915854+054	-.7266821439+053
50	.2167634184-071	-.7501854666-072	50	-.2714193846+070	-.9596322935+069
51	.3150117833-073	-.1113788594-073	51	-.1822756169+072	-.6581641781+071
60	.3982809295-090	-.1683304359-090	60	-.1170704308+089	-.5040084831+088
61	.4844103996-092	-.2085505438-092	61	-.9414678316+090	-.4127817255+090
70	.1401954863-109	-.7060796327-110	70	-.2681621407+108	-.1373047483+108
71	.1465802385-111	-.7505304194-112	71	-.2511717641+110	-.1307265096+110
80	.1194011449-129	-.7047875790-130	80	-.2562090440+128	-.1535436483+128
81	.1094550532-131	-.6559588501-132	81	-.2738625749+130	-.1666151027+130
90	.2931264792-150	-.2004995167-150	90	-.8522093014+148	-.5912894701+143
91	.2391877298-152	-.1659568919-152	91	-.1023458722+151	-.7202637537+150
99	.3201291424-169	-.2484105052-169	99	-.6498469309+167	-.5112369313+167
100	.2376794409-171	-.1869841421-171	100	-.8575207976+169	-.6839195335+169

REAL X = .1500000000+001 IMAGINARY X = -.1000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.6656807435+000	.3965503917-001	0	-.4276335870-001	-.6946144456-001
1	.3973054959+000	-.1368682814-001	1	-.6909899884+000	-.8764995187-001
2	.1272311060+000	-.1416790549-001	2	-.1321466713+001	-.1967871306+000
3	.2805611814-001	-.5182082555-002	3	-.3650871420+001	-.8577645775+000
4	.4723185287-002	-.1218193683-002	4	-.1537486723+002	-.4919203161+001
5	.6427206612-003	-.2138236219-003	5	-.8623117492+002	-.3464959081+002
6	.7331776259-004	-.3007934077-004	6	-.5973241754+003	-.2900243900+003
7	.7190628026-005	-.3536578889-005	7	-.4900843914+004	-.2811366873+004
8	.6176351591-006	-.3574216022-006	8	-.4632831200+005	-.3095202007+005
9	.4712121378-007	-.3168265296-007	9	-.4945476171+006	-.3812747580+006
10	.3228395446-008	-.2501098364-008	10	-.5869682771+007	-.5192928987+007
11	.2003628247-009	-.1779523634-009	11	-.7649211452+008	-.7745217520+008
12	.1134255638-010	-.1152200729-010	12	-.1082996666+010	-.1254998181+010
13	.5888932586-012	-.6843102271-012	13	-.1650531298+011	-.2194463784+011
14	.2815803853-013	-.3752917257-013	14	-.2684810093+012	-.4117194167+012
15	.1243589414-014	-.1911319296-014	15	-.4622847606+013	-.8247254280+013
16	.5080994744-016	-.9083631345-016	16	-.8353502582+014	-.1756184362+015
17	.1920423614-017	-.4045610925-017	17	-.1568581992+016	-.3960238664+016
18	.6698972701-019	-.1694790030-018	18	-.3022165050+017	-.9425029609+017
19	.2143713007-020	-.6699992540-020	19	-.5862966866+018	-.2360071416+019
20	.6212334501-022	-.2506797092-021	20	-.1107335253+020	-.6200784480+020
30	-.4646272779-037	-.1029718024-036	30	.4550706155+035	-.8526097543+035
31	-.1270572572-038	-.2379168125-038	31	.2071548175+037	-.3326862557+037
40	-.1635717509-053	-.8529738523-054	40	.4078004852+052	-.1792815837+052
41	-.3059912959-055	-.1344741506-055	41	.2255882635+054	-.8172860419+053
50	-.2516134497-071	.4718037979-072	50	.2492698890+070	.6414302056+069
51	-.3619191245-073	.9316712513-074	51	.1641880371+072	.5413086324+071
60	-.3250829492-090	.3710073632-090	60	.6773180538+088	.8854573801+088
61	-.3663234501-092	.4789544509-092	61	.4964522651+090	.7472660244+090
70	-.9818944115-111	.1827863020-109	70	-.3317939607+106	.2577622083+108
71	.2485720594-113	.1924412783-111	71	-.1918818442+109	.2409895202+110
80	.9496899190-130	.1352613687-129	80	-.1569636117+128	.1946243977+128
81	.9570231644-132	.1186561493-131	81	-.1815800657+130	.1967712603+130
90	.4142945438-150	.1249269438-150	90	-.8277529859+148	.1906028833+148
91	.3464359307-152	.7976229567-153	91	-.1009599164+151	.1626623826+150
99	.4801319138-169	-.1518517607-169	99	-.6182477283 ^67	-.2418388207+167
100	.3507708330-171	-.1372194821-171	100	-.7952364485+169	-.3738432094+169

REAL X = .1500000000+001 IMAGINARY X = -.5000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.6822529130+000	.2028437552+000	0	.5609892777-001	-.5278269939+000
1	.4248819245+000	-.6967015822-001	1	-.5830281575+000	-.3883201660+000
2	.1243366461+000	-.7332088527-001	2	-.8725575117+000	-.7209661994+000
3	.2144889902-001	-.2595585149-001	3	-.1313678178+001	-.2647135944+001
4	.2086921871-002	-.5665232363-002	4	-.9389005158+000	-.1223615421+002
5	.1789733843-004	-.8799439017-003	5	.1826869298+002	-.6511811774+002
6	-.3292285361-004	-.1030232442-003	6	.2647721332+003	-.3773522983+003
7	-.6835161575-005	-.9236822685-005	7	.3028069922+004	-.2189822263+004
8	-.8831325069-006	-.6136446566-006	8	.3355732395+005	-.1024683830+005
9	-.863981 261-007	-.2500333576-007	9	.3740958846+006	.1176697301+005
10	-.6793870955-008	.2936110793-009	10	.4186421263+007	.1565954692+007
11	-.4377779628-009	.1685773476-009	11	.4579780232+008	.3730223145+008
12	-.2292073006-010	.1897768934-010	12	.4562329861+009	.7238747300+009
13	-.9214347927-012	.1484342222-011	13	.3178323339+010	.1310198365+011
14	-.2196158665-013	.9290678082-013	14	-.1971810660+011	.2286912064+012
15	.4438562151-015	.4858561268-014	15	-.1672682375+013	.3851759990+013
16	.9423239195-016	.2143672891-015	16	-.5497308601+014	.6104341388+014
17	.7121037272-017	.7844844168-017	17	-.1489680952+016	.8419854671+015
18	.3954815796-018	.2216992978-018	18	-.3712222518+017	.7192884729+016
19	.1807899078-019	.3443930909-020	19	-.8758510651+018	-.1158644108+018
20	.7041436566-021	-.9518639874-022	20	-.1955405029+020	-.9550058406+019
30	-.5024194810-036	.1101519294-036	30	.1734140560+035	.1031893524+035
31	-.1109113874-037	.6617420207-038	31	.5082754931+036	.5891236925+036
40	.1330677253-052	-.4037851990-053	40	-.4586000021+051	-.3245720389+051
41	.2161881297-054	-.1532239409-054	41	-.1701912688+053	-.2320026248+053
50	-.2976569473-070	.1162321430-070	50	.1507279827+069	.1253513101+069
51	-.3770838110-072	.3138741423-072	51	.6599101655+070	.1063985685+071
60	.9184448103-089	-.4429561734-089	60	-.3677726041+087	-.3572777152+087
61	.9400242789-091	-.9137526058-091	61	-.1804803219+089	-.3483550114+089
70	-.5419124959-108	.3147157917-108	70	.4757015344+106	.5367833585+106
71	-.4584058101-110	.5196846498-110	71	.2493081527+108	.5876616686+108
80	.7719812615-128	-.5312081488-128	80	-.2525511412+126	-.3346672463+126
81	.5474651499-130	-.7257304300-130	81	-.1361671952+128	-.4045863970+128
90	-.3162010181-148	.2552383067-148	90	.4640910078+146	.7240146336+146
91	-.1894420119-150	.2956313071-150	91	.2418504169+148	.9542331285+148
99	.6757747743-167	-.3129123119-167	99	-.3107408485+165	-.2925892775+165
100	.4264767871-169	-.4016551960-169	100	-.2545429519+167	-.4730120639+167

REAL X = .1500000000+001 IMAGINARY X = -.1000000000+001

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.7359851122+000	.4352367789+000	0	.3103161507+000	-.5746274321+000
1	.5160828090+000	-.1472918074+000	1	-.4159543327+000	-.6049675473+000
2	.1145522532+000	-.1627951500+000	2	-.3278213369+000	-.6469777867+000
3	-.1277378476-002	-.5215507236-001	3	.6547939963+000	-.1392398633+001
4	-.6345166282-002	-.8457129710-002	4	.5442322072+001	-.2441215342+001
5	-.1659722267-002	-.5457730611-003	5	.2871206325+002	.6323011411+001
6	-.2338840958-003	.6876034345-004	6	.1189256527+003	.1317219489+003
7	-.1862368201-004	.2279873858-004	7	.1579540576+003	.1259711293+004
8	-.2740346164-006	.3121622047-005	8	-.4839449683+004	.9318374960+004
9	.1450796983-006	.2605764100-006	9	-.6687128982+005	.4653964775+005
10	.2290218912-007	.1159086148-007	10	-.1029032879+007	-.1090643891+006
11	.2000568257-008	-.2508382582-009	11	-.9182108251+007	-.7752760789+007
12	.1097754355-009	-.9573840010-010	12	-.4157688605+008	-.1471705470+009
13	.2520615427-011	-.9409161873-011	13	.6615299383+009	-.2010191136+010
14	-.1962677364-012	-.5737350752-012	14	.2498530709+011	-.1940711642+011
15	-.2810138219-013	-.2137355148-013	15	.5069283884+012	-.3480078081+011
16	-.1927394688-014	-.1150761369-015	16	.7559936006+013	.4356805188+013
17	-.8585612615-016	.5038425530-016	17	.7039838271+014	.1431547223+015
18	-.2111637566-017	.4371210138-017	18	-.4120215326+015	.3066278985+016
19	.3130769161-019	.2223824535-018	19	-.4201486530+017	.4752874895+017
20	.6586572253-020	.7366325459-020	20	-.1326200541+019	.3482728185+018
30	.8770006212-035	.2499086560-034	30	-.2741545957+033	.2070792543+033
31	.6060087067-036	.4555087985-036	31	-.1160177198+035	.6744884189+033
40	-.1589700124-051	.2650027905-050	40	-.1298236716+049	.2230177617+049
41	.2908142875-052	.4980381854-052	41	-.1041205784+051	.5095949012+050
50	-.1003805639-067	.2028271723-067	50	-.3094981534+065	.2407604435+066
51	.5084917435-070	.3928675106-069	51	-.8926795808+067	.1025735523+068
60	-.2031429147-085	.1747629569-085	60	.4609394035+083	.1647772152+084
61	-.1955863053-087	.3783337511-087	61	-.3562579426+085	.1091659716+086
70	-.5822708996-104	.1858676222-104	70	.4018117762+102	.5029168925+102
71	-.4807381396-106	.6022543438-106	71	.4321862974+103	.5015819795+104
80	-.3377835551-123	-.3146536478-124	80	.8938270115+121	.4823819157+121
81	-.3301431156-125	.1783184328-125	81	.4251029794+123	.8012457421+123
90	-.4805204686-143	-.2594218174-143	90	.5588398479+141	.5199934780+140
91	-.5356451364-145	.4998797115-146	91	.4378368401+143	.3546971312+143
99	-.2776955988-162	-.3246441529-161	99	.5334114403+159	-.6688996001+159
100	-.1822604364-163	-.2284496507-163	100	.8994836077+161	-.2876686165+161

REAL X = .1500000000+001 IMAGINARY X = -.3000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.1527962033+001	.2583499773+001	0	.2569786906+001	-.1522279532+001
1	.2084581904+001	-.7703563536+000	1	-.7793825701+000	-.2101193869+001
2	-.7784418810-001	-.1223976791+001	2	-.1200584839+001	.5829592849-001
3	-.5045089755+000	-.1494204243+000	3	-.9873522735-001	.5392780356+000
4	-.1141127303+000	.1427676403+000	4	.1017796272+000	.2607244804+000
5	.2493136237-001	.4687104010-001	5	-.4048679729+000	.1786244599-001
6	.1319034414-001	-.8914519089-003	6	-.7479824957+000	-.1422138947+001
7	.1022267422-002	-.2689697050-002	7	.4038446663+001	-.5075909272+001
8	-.3870210946-003	-.3988725026-003	8	.2912851291+002	.7424107053+001
9	-.9129322487-004	.3109041543-004	9	.2833023062+002	.1539531438+003
10	-.1779846579-005	.1508254905-004	10	-.7373878572+003	.5261303590+003
11	.1847379782-005	.1173581056-005	11	-.5039346241+004	-.2810160139+004
12	.2471807672-006	-.1529711438-006	12	.2519041568+004	-.4005194506+005
13	-.3636266698-008	-.3561308751-007	13	.2804491186+006	-.1139027130+006
14	-.3857097241-008	-.1417091494-008	14	.1827197319+007	.1649235832+007
15	-.3190017448-009	.3054483947-009	15	-.5969376588+007	.2062127386+008
16	.1351663302-010	.4253043568-010	16	-.1969698178+009	.3423851633+008
17	.4207096096-011	.6318928730-012	17	-.1161996765+010	-.1603306199+010
18	.2188152765-012	-.3153720464-012	18	.9738509433+010	-.1836163725+011
19	-.1593654091-013	-.2875090743-013	19	.2303734642+012	.7105855485+010
20	-.2675851946-014	.1273023595-015	20	.1114302607+013	.2451196113+013
30	-.5397151516-027	-.3422065261-026	30	.1337810730+025	-.4315299562+024
31	-.1756371588-027	-.5530093801-028	31	.1788857857+026	.1833081258+026
40	.1646986714-039	-.4198440491-040	40	-.4650861170+037	-.2110561438+038
41	.1449768048-041	-.6706781624-041	41	.4065410976+039	-.3281766717+039
50	.2351320676-054	.6734738568-054	50	-.4098056986+052	.5337091157+051
51	.2302805989-055	.2938389657-056	51	-.6951597008+053	-.1033192719+054
60	-.3810783205-069	.1696802473-069	60	.2711700216+066	.5895068374+067
61	-.5018899418-072	.1135916944-070	61	-.1859913329+069	.1037895152+069
70	-.2256483826-085	-.4131134158-085	70	.4486136363+083	.1587857402+082
71	-.1102988882-086	.4051771906-088	71	.7831724449+084	.1717589995+085
80	.1082606047-101	-.7088293806-102	80	.1646374286+099	-.1420809809+100
81	-.3091374777-104	-.2644056324-103	81	.6455957160+101	-.2341512029+101
90	.6318805996-119	.8164747243-119	90	-.1564752461+117	-.3081340124+116
91	.1855950439-120	-.3670482577-121	91	-.2287182495+118	-.8298532918+118
99	-.1530937529-134	-.5945062267-135	99	.6757141594+132	.6124063837+132
100	-.2029071666-136	.1841462765-136	100	-.1458388355+134	.5211271024+134

REAL X = .1500000000+001 IMAGINARY X = -.1000000000+002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.2373488478+003	.1062962135+004	0	.1062962131+004	-.2373488474+003
1	.9624868439+003	-.1985426696+003	1	-.1985426701+003	-.9624868488+003
2	-.1367378856+003	-.7893077264+003	2	-.7893077205+003	.1367378849+003
3	-.5865469693+003	.7378274565+002	3	.7378274687+002	.5865469771+003
4	.2599426333+002	.3953363912+003	4	.3953363801+003	-.2599426100+002
5	.2420056231+003	.1293293291+001	5	.1293288553+001	-.2420056402+003
6	.1166667083+002	-.1347793460+003	6	-.1347793172+003	-.1166668103+002
7	-.6842307968+002	-.1216400271+002	7	-.1216397952+002	.6842313151+002
8	-.8878591476+001	.3172651456+002	8	.3172641485+002	.8878647108+001
9	.1346061947+002	.5314766238+001	9	.5314625682+001	-.1346082320+002
10	.2754601935+001	-.5232739142+001	10	-.5232300033+001	-.2754975535+001
11	-.1865067576+001	-.1269434959+001	11	-.1268391830+001	.1866058052+001
12	-.5284385204+000	.6091592054+000	12	.6068440908+000	.5314927180+000
13	.1818769070+000	.2008172579+000	13	.1914575891+000	-.1874076808+000
14	.7020238459-001	-.4935613606-001	14	-.3614376480-001	-.1001622760+000
15	-.1202768271-001	-.2270772622-001	15	.7724467397-001	.4228543141-001
16	-.6827246369-002	.2564048911-002	16	-.5692818041-001	.3535815575+000
17	.4473909219-003	.1914856974-002	17	-.1245947451+001	-.5484301027-001
18	.5024354392-003	-.4945904480-004	18	-.3950736540+000	-.4646597360+001
19	.4296251243-005	-.1235989249-003	19	.1784559963+002	-.3896877336+001
20	-.2854877516-004	-.4868574967-005	20	.2546842074+002	.7048343385+002
30	.2200512256-013	.1687855548-011	30	-.9030780611+009	.1369018504+009
31	.2625328112-012	.3405511554-013	31	-.1626341038+010	-.5417273799+010
40	.4287402138-020	-.6449291579-021	40	-.2248106413+016	-.2735312004+018
41	-.2346276125-023	-.5210652270-021	41	.2198325913+019	-.3381641376+018
50	-.2663559116-030	-.9809060426-030	50	.9395619947+027	.1043329222+027
51	-.9819989474-031	.1173727063-031	51	.3372922145+027	.9527811562+028
60	-.3201156438-040	.1242332350-040	60	-.5064580081+037	.2293736409+038
61	.6209882231-042	.2735577173-041	61	-.2822770113+039	-.1992356844+038
70	.1031556528-051	.2036637829-051	70	-.2890711909+049	-.9484091713+048
71	.1524552724-052	-.5076074717-053	71	.7197601313+049	-.4202076407+050
80	.3165544638-063	-.2000027228-063	80	.6524583324+060	-.1491733874+061
81	-.9346618633-065	-.2117397167-064	81	.2511682868+062	.6804953292+061
90	-.1095459126-075	-.1425145871-075	90	.2644962672+073	.1460925014+073
91	-.8656429600-077	.4811733246-077	91	-.1894115347+074	.5083469928+074
99	-.4483255472-087	-.3606099273-087	99	.6329575038+084	.5814608385+084
100	-.2122144337-088	.1958235163-088	100	-.9502874832+085	.1404381035+086

REAL X = .1500000000+001 IMAGINARY X = -.1000000000+003

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.1151594066+041	.1338964295+042	0	.1336964295+042	-.1151594066+041
1	.1325594934+042	-.1138072721+041	1	-.1138072721+041	-.1325594934+042
2	-.1111495729+041	-.1299256595+042	2	-.1299256595+042	.1111495729+041
3	-.1260730061+042	.1072768204+041	3	.1072768204+041	.1260730061+042
4	.1023184160+041	.1211137958+042	4	.1211137958+042	-.1023184160+041
5	.1151890264+042	-.9643556599+040	5	-.9643556599+040	-.1151890264+042
6	-.8981269855+040	-.1084617614+042	6	-.1084617614+042	.8981269855+040
7	-.1011096787+042	.8264801303+040	7	.8264801303+040	.1011096787+042
8	.7514382932+040	.9331731293+041	8	.9331731293+041	-.7514382932+040
9	.8526846148+041	-.6749737946+040	9	-.6749737946+040	-.8526846148+041
10	-.5989260759+040	-.7713918208+041	10	-.7713918208+041	.5989260759+040
11	-.6909173917+041	.5249342352+040	11	.5249342352+040	.6909173917+041
12	.4543870731+040	.6126976293+041	12	.6126976293+041	-.4543870731+040
13	.5379477977+041	-.3883920278+040	13	-.3883920278+040	-.5379477977+041
14	-.3277628302+040	-.4676416602+041	14	-.4676416602+041	.3277628302+040
15	-.4025047678+041	.2730243526+040	15	.2730243526+040	.4025047678+041
16	.2244320587+040	.3430201784+041	16	.3430201784+041	-.2244320587+040
17	.2894446413+041	-.1820027542+040	17	-.1820027542+040	-.2894446413+041
18	-.1455529988+040	-.2418328725+041	18	-.2418328725+041	.1455529988+040
19	-.2000673703+041	.1147415540+040	19	.1147415540+040	.2000673703+041
20	.8911255067+039	.1638912588+041	20	.1638912588+041	-.8911255067+039
30	-.2209455702+038	-.1302459134+040	30	-.1302459134+040	.2209655702+038
31	-.9586015833+039	.1196770925+038	31	.1196770925+038	.9586015833+039
40	-.1329651878+037	.3957893630+038	40	.3957893628+038	.1329651882+037
41	.2649869637+038	.1042387225+037	41	.1042387218+037	-.2649869639+038
50	.4560864850+035	-.4730778331+036	50	-.4730764226+036	-.4560908668+035
51	-.2890188013+036	-.2986692742+035	51	-.2986619805+035	.2890210943+036
60	-.3928936479+033	.2298121784+034	60	.2029421295+034	.4981804341+033
61	.1285570214+034	.2301976445+033	61	.3937522983+032	-.1761652682+034
70	.1209937439+031	-.4700542080+031	70	.1189374482+036	-.5820646921+035
71	-.2416422166+031	-.6445399904+030	71	.1144123413+036	.2287794138+036
80	-.1498038428+028	.4198545883+028	80	-.1175141490+039	.7123680509+038
81	.1990735971+028	.7316508031+027	81	-.1512986238+039	-.2443768121+039
90	.8006561994+024	-.1698177812+025	90	.2487457590+042	-.1859615955+042
91	-.7453163320+024	-.3606791931+024	91	.4251882232+042	.5569747593+042
99	-.7845096659+021	-.4637453909+021	99	.4100096650+045	.4539789149+045
100	-.1950709148+021	.3221219781+021	100	-.1082648522+046	.9987651669+045

REAL X = .1600000000+001 IMAGINARY X = .0000000000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.6247335019+000	.0000000000	0	.1824970144-001	.0000000000
1	.4087081401+000	.0000000000	1	-.6133274385+000	.0000000000
2	.1415942608+000	.0000000000	2	-.1168238649+001	.0000000000
3	.3377392499-001	.0000000000	3	-.3037418338+001	.0000000000
4	.6166660979-002	.0000000000	4	-.1212046658+002	.0000000000
5	.9135430196-003	.0000000000	5	-.6514020619+002	.0000000000
6	.1139472806-003	.0000000000	6	-.4357184509+003	.0000000000
7	.1227863571-004	.0000000000	7	-.3475072208+004	.0000000000
8	.1164929119-005	.0000000000	8	-.3214308350+005	.0000000000
9	.9873618030-007	.0000000000	9	-.3380451899+006	.0000000000
10	.7563022131-008	.0000000000	10	-.3982143547+007	.0000000000
11	.5284851738-009	.0000000000	11	-.5192758887+008	.0000000000
12	.3395224174-010	.0000000000	12	-.7424769464+009	.0000000000
13	.2018603366-011	.0000000000	13	-.1154927470+011	.0000000000
14	.1116900695-012	.0000000000	14	-.1941515336+012	.0000000000
15	.5779142917-014	.0000000000	15	-.3507447272+013	.0000000000
16	.2808245374-015	.0000000000	16	-.6776263936+014	.0000000000
17	.1286316675-016	.0000000000	17	-.1394096989+016	.0000000000
18	.5572352170-018	.0000000000	18	-.3042810900+017	.0000000000
19	.2289764450-019	.0000000000	19	-.7022559237+018	.0000000000
20	.8948677491-021	.0000000000	20	-.1708706003+020	.0000000000
30	.7308499455-036	.0000000000	30	-.1403850995+035	.0000000000
31	.1857288618-037	.0000000000	31	-.5348371962+036	.0000000000
40	.2227063963-052	.0000000000	40	-.3467382001+051	.0000000000
41	.9294694276-054	.0000000000	41	-.1754659588+053	.0000000000
50	.5765687014-070	.0000000000	50	-.1073805818+069	.0000000000
51	.8958528054-072	.0000000000	51	-.6776663323+070	.0000000000
60	.2072404217-088	.0000000000	60	-.2493286287+087	.0000000000
61	.2696259375-090	.0000000000	61	-.1885212461+089	.0000000000
70	.1434454527-107	.0000000000	70	-.3090907550+106	.0000000000
71	.1605182291-109	.0000000000	71	-.2723506443+108	.0000000000
80	.2415646041-127	.0000000000	80	-.1607335943+126	.0000000000
81	.2371412041-129	.0000000000	81	-.1617220031+128	.0000000000
90	.1179630617-147	.0000000000	90	-.2927677926+146	.0000000000
91	.1031449032-149	.0000000000	91	-.3311673941+148	.0000000000
99	.2405620527-166	.0000000000	99	-.1305737818+165	.0000000000
100	.1915041970-168	.0000000000	100	-.1623905355+167	.0000000000

REAL X = .1600000000+001 IMAGINARY X = -.1000000000-002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.6247335588+000	.4087081787-003	0	.1825009389-001	-.6133272973-003
1	.4087082560+000	-.1138483343-003	1	-.6133270150+000	-.7849086497-003
2	.1415942552+000	-.1432189218-003	2	-.1168236878+001	-.1577118161-002
3	.3377589844-001	-.5715944984-004	3	-.3037408722+001	-.6425295439-002
4	.6166689038-002	-.1450310608-004	4	-.1212040352+002	-.3483894964-001
5	.9135398366-003	-.2740872959-005	5	-.6513971198+002	-.2321544967+000
6	.1139466623-003	-.4150231941-006	6	-.4357139439+003	-.1841119682+001
7	.1227884040-004	-.5255400809-007	7	-.3475025350+004	-.1693954609+002
8	.1164916898-005	-.5725894701-008	8	-.3214253673+005	-.1773285315+003
9	.9873493647-007	-.5478260852-009	9	-.3380381164+006	-.2080621815+004
10	.7562892639-008	-.4674019178-010	10	-.3982043085+007	-.2703892154+005
11	.5284740627-009	-.3599362834-011	11	-.5192603516+008	-.3854702692+006
12	.3395138212-010	-.2526214424-012	12	-.7424509576+009	-.5980616823+007
13	.2018542802-011	-.1628932500-013	13	-.1154880724+011	-.1003121259+009
14	.1116861515-012	-.9714992594-015	14	-.1941425371+012	-.1808589625+010
15	.5778908597-014	-.5389801062-016	15	-.3507262816+013	-.3487963209+011
16	.2808115062-015	-.2795344453-017	16	-.6775862560+014	-.7164547623+012
17	.1286248948-016	-.1361118073-018	17	-.1394004609+016	-.1561544476+014
18	.5572021780-018	-.6245888979-020	18	-.3042586679+017	-.3599299152+015
19	.2289612591-019	-.2710093067-021	19	-.7021986879+018	-.8747509278+016
20	.8948017603-021	-.1115225883-022	20	-.1708552720+020	-.2235580794+018
30	.7307261149-036	-.1368414243-037	30	-.1403579734+035	-.2715965067+033
31	.1856952168-037	-.3593719258-039	31	-.5347271664+036	-.1068192687+035
40	.2226386522-052	-.5562829375-054	40	-.3466217673+051	-.8877098519+049
41	.4293320795-054	-.1099595212-055	41	-.1754041598+053	-.4601947901+051
50	.5762931072-070	-.1800605891-071	50	-.1073250220+069	-.3420406922+067
51	.8954071022-072	-.2853710638-073	51	-.6773019379+070	-.2200931994+069
60	.2070972517-088	-.7767090170-090	60	-.2491446075+087	-.9499886408+085
61	.2694333511-090	-.1027367066-091	61	-.1883775403+089	-.7300789417+087
70	.1433102229-107	-.6272218034-109	70	-.3087823582+106	-.1370765450+105
71	.1603625164-109	-.7118987060-111	71	-.2720712479+108	-.1224838142+107
80	.2412666003-127	-.1207101686-128	80	-.1605252088+126	-.8131917617+124
81	.2368412496-129	-.1199803755-130	81	-.1615071564+128	-.8282885832+126
90	.1177786183-147	-.6631009524-149	90	-.2922893557+146	-.1663928170+145
91	.1029800047-149	-.5862416920-151	91	-.3306143105+148	-.1902836660+147
99	.2401064635-165	-.1487365538-167	99	-.1303163586+165	-.8154330496+163
100	.1911341150-168	-.1195994704-169	100	-.1620639838+167	-.1024258945+166

REAL X = .1600000000+001 IMAGINARY X = -.1000000000-001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.6247391943+000	.4087120021-002	0	.1828894601-001	-.6133133229-002
1	.4087197260+000	-.1138490842-002	1	-.6132850930+000	-.7848740155-002
2	.1415936986+000	-.1432209768-002	2	-.1168061605+001	-.1576933368-001
3	.3377127036-001	-.5715959550-003	3	-.3036456859+001	-.6424131480-001
4	.6165466900-002	-.1450277509-003	4	-.1211416172+002	-.3483003143+000
5	.9132247254-003	-.2740704977-004	5	-.6509079666+002	-.2320743288+001
6	.1138854464-003	-.4149764089-005	6	-.4352678700+003	-.1840294749+002
7	.1226910505-004	-.5254470058-006	7	-.3470388018+004	-.1692999476+003
8	.1163707161-005	-.5724438088-007	8	-.3208842942+005	-.1772057170+004
9	.9860181381-007	-.5476373161-008	9	-.3373381861+006	-.2078886107+005
10	.7550075121-008	-.4671926802-009	10	-.3972103193+007	-.2701218657+006
11	.5273743091-009	-.3597334116-010	11	-.5177232226+008	-.3850246004+007
12	.3386630448-010	-.2524465049-011	12	-.7398800520+009	-.5972624041+008
13	.2012548998-011	-.1627573602-012	13	-.1150256951+011	-.1001586897+010
14	.1112984343-012	-.9705386016-014	14	-.1932527664+012	-.1805450668+011
15	.5755722497-014	-.5383568683-015	15	-.3489021846+013	-.3481146243+012
16	.2795221701-015	-.2791607958-016	16	-.6736175213+014	-.7148885121+013
17	.1279548520-016	-.1359035689-017	17	-.1384871347+016	-.1557748933+015
18	.5539338482-018	-.6235046177-019	18	-.3020421913+017	-.3589624286+016
19	.2274591744-019	-.2704795026-020	19	-.6965416204+018	-.8721632730+017
20	.8882753256-021	-.1112787197-021	20	-.1693404825+020	-.2228334932+019
30	.7184969305-036	-.1361284542-036	30	-.1376822653+035	-.2697566179+034
31	.1823731281-037	-.3573655703-038	31	-.5238762598+036	-.1060504043+036
40	.2159625759-052	-.5509919069-053	40	-.3351656219+051	-.8774303044+050
41	.4157999844-054	-.1088586663-054	41	-.1693253333+053	-.4546126420+052
50	.5492088835-070	-.1773451308-070	50	-.1018755953+069	-.3360049155+068
51	.8516190076-072	-.2808887290-072	51	-.6415739518+070	-.2160606831+070
60	.1930752381-088	-.7596944591-089	60	-.2311641653+087	-.9262771651+086
61	.2505786619-090	-.1004090031-090	61	-.1743421134+089	-.7112728152+088
70	.1301198186-107	-.6084229760-108	70	-.2787837932+106	-.1324840707+106
71	.1451809570-109	-.6899396980-110	71	-.2449067625+108	-.1182674044+108
80	.2123365815-127	-.1159711440-127	80	-.1403587132+126	-.7780160718+125
81	.2077367043-129	-.1151505926-129	81	-.1407269837+128	-.7915975787+127
90	.9996940192-148	-.6301123946-148	90	-.2462559120+146	-.1573747834+146
91	.8706714921-150	-.5564236489-150	91	-.2774313721+148	-.1797503773+148
99	.1963544130-166	-.1397830390-166	99	-.1056906964+165	-.7623983291+164
100	.1556162579-168	-.1122541335-168	100	-.1308464232+167	-.9563499740+166

REAL X = .1600000000+001 IMAGINARY X = -.1000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.6253029329+000	.4090944659-001	0	.2216553716-001	-.6119217844-001
1	.4098673846+000	-.1139240886-001	1	-.6091223581+000	-.7814327219-001
2	.1415379888+000	-.1434265558-001	2	-.1150704190+001	-.1558601227+000
3	.3350819455-001	-.5717416142-002	3	-.2942513228+001	-.6308968354+000
4	.6047213604-002	-.1446964886-002	4	-.1150086016+002	-.3395036304+001
5	.8817448607-003	-.2723901281-003	5	-.6030918077+002	-.2241941325+002
6	.1077819954-003	-.4103001991-004	6	-.3919155706+003	-.1759519567+003
7	.1133083211-004	-.5161552819-005	7	-.3022611568+004	-.1599872782+004
8	.1043802221-005	-.5579254182-006	8	-.2690102936+005	-.1652866443+005
9	.8546891090-007	-.5288593580-007	9	-.2707553141+006	-.1911283071+006
10	.6290451556-008	-.4464277326-008	10	-.3034506661+007	-.2444457964+007
11	.4198652416-009	-.3396555984-009	11	-.3740475523+008	-.3424710187+008
12	.2559854759-010	-.2351876982-010	12	-.5019175004+009	-.5214171319+009
13	.1433913292-011	-.1493982798-011	13	-.7267325668+010	-.8569441236+010
14	.7414025403-013	-.8764691040-013	14	-.1126541049+012	-.1511601551+012
15	.3551232575-014	-.4775920156-014	15	-.1856073537+013	-.2847667174+013
16	.1579904124-015	-.2429023426-015	16	-.3227391367+014	-.5704655183+014
17	.6538437917-017	-.1157997173-016	17	-.5879528839+015	-.1210600524+016
18	.2517761156-018	-.5194023088-018	18	-.1113047304+017	-.2712251160+017
19	.9007447048-020	-.2199132095-019	19	-.2167547362+018	-.6395813983+018
20	.2981441334-021	-.8814981680-021	20	-.4281137264+019	-.1583094081+020
30	-.2284336847-036	-.7404917630-036	30	.4673224626+034	-.1236023829+035
31	-.6982668647-038	-.1845449901-037	31	.2067051343+036	-.4579650153+036
40	-.1921516375-052	-.1450971819-052	40	.2669557787+051	-.1766029391+051
41	-.3880463370-054	-.2566297873-054	41	.1401347353+053	-.8060441022+052
50	-.6354684982-070	-.1411348142-071	50	.9713553361+068	.3902094995+067
51	-.9887377740-072	.3981077349-073	51	.6090912573+070	.6271352858+069
60	-.1919781630-088	.1319701651-088	60	.1742505474+087	.1365284798+087
61	-.2390341612-090	.1873125362-090	61	.1248116502+089	.1110350323+089
70	-.5548215247-108	.1547793465-107	70	.7484245985+105	.2585148970+106
71	-.5125777322-110	.1770821306-109	71	.5150469412+107	.2310067288+108
80	.7806274492-128	.2713342582-127	80	-.4609891495+125	.1292792489+126
81	.9328423900-130	.2615749436-129	81	-.5430152961+127	.1266798589+128
90	.1105128317-147	.8690259050-148	90	-.2017990954+146	.1392367725+146
91	.1013803141-149	.6994576483-150	91	-.2371858656+148	.1426728291+148
99	.2901835193-166	.3044067368-167	99	-.1073499302+165	.4523883229+163
100	.2325209267-168	.9793179308-170	100	-.1333385529+167	-.2708535792+165

REAL X = .1600000000+001 IMAGINARY X = -.5000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.6390834062+000	.2092233982+000	0	.1114300282+000	-.2907238112+000
1	.4380925730+000	-.5787714212-001	1	-.5239054877+000	-.3549326807+000
2	.1401550506+000	-.7423102192-001	2	-.8168917080+000	-.5952317400+000
3	.2696719905-001	-.2876362263-001	3	-.1272199250+001	-.2066449237+001
4	.3156447138-002	-.6824984072-002	4	-.1679926538+001	-.9225739376+001
5	.1378782153-003	-.1156576124-002	5	.7437638765+001	-.4790163490+002
6	-.2910718319-004	-.1491830458-003	6	.1420220740+003	-.2762410795+003
7	-.8248184322-005	-.1502673818-004	7	.1682820779+004	-.1668351380+004
8	-.1232990246-005	-.1173928861-005	8	.1868371958+005	-.9481508844+004
9	-.1357798697-006	-.6624477779-007	9	.2078509863+006	-.3359336538+005
10	-.1198578584-007	-.1782885176-008	10	.2343525161+007	.3487505701+006
11	-.8756853812-009	.1395488842-009	11	.2651121108+008	.1296065150+008
12	-.5337223951-010	.2666348764-010	12	.2918077473+009	.2778828873+009
13	-.2671620908-011	.2581547007-011	13	.2891201886+010	.5240744806+010
14	-.1028166493-012	.1891630560-012	14	.1897860741+011	.9418169045+011
15	-.2242736538-014	.1145099325-013	15	-.1754987207+012	.1647862545+013
16	.6571332317-016	.5902708066-015	16	-.1220638288+014	.2802459128+014
17	.1148931188-016	.2607736064-016	17	-.3937400785+015	.4532607148+015
18	.8516783039-018	.9730204080-018	18	-.1065736903+017	.6552811229+016
19	.4751304401-019	.2899408049-019	19	-.2672728984+018	.6743467442+017
20	.2211153951-020	.5507595104-021	20	-.6392476088+019	-.3638118273+018
30	-.2782120457-035	-.1018510005-035	30	.3301038163+034	-.1616014639+033
31	-.7878636591-037	-.3757903966-038	31	.1163211176+036	.3024927610+035
40	.1287997456-051	.6391277738-052	40	-.5061677708+050	.8076165140+049
41	.2868946319-053	.4556496204-054	41	-.2449922163+052	-.3575336451+051
50	-.4987504887-069	-.3207317729-069	50	.9607016655+067	-.2647629630+067
51	-.9306897787-071	-.2560291719-071	51	.5999289734+069	.2048188714+068
60	.2633915675-087	.2142910348-087	60	-.1348646910+086	.5391402379+085
61	.4298158054-089	.1716638742-089	61	-.1045094073+088	.8095412182+086
70	-.2622713912-106	-.2672515180-106	70	.9960688704+104	-.5339542877+104
71	-.3869542063-108	-.2073126255-108	71	.9335590480+106	-.1786828728+106
80	.6190953874-126	.7912456294-126	80	-.3035883927+124	.2095278991+124
81	.8505223447-128	.5867760594-128	81	-.3383083016+126	.1050779806+126
90	-.4097252847-146	-.6656936170-146	90	.3180665038+144	-.2768795885+144
91	-.5401723369-148	-.4700869510-148	91	.4169531908+146	-.1828820577+146
99	.3298662556-165	.2401727601-164	99	-.5259688087+162	.1119272765+163
100	.8601452391-167	.1829836548-166	100	-.9922850126+164	.1081897702+165

REAL X = .1600000000+001 IMAGINARY X = -.1000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.6835845389+000	.4486874077+000	0	.3502223706+000	-.5152985755+000
1	.5314155881+000	-.1216231847+000	1	-.3814344354+000	-.5819052027+000
2	.1354223087+000	-.1648515994+000	2	-.3741464385+000	-.5907262220+000
3	.4437351804-002	-.5862997584-001	3	.3703275821+000	-.1271056024+001
4	-.6178440384-002	-.1087712725-001	4	.4038489441+001	-.2679929508+001
5	-.1930440639-002	-.9870454825-003	5	.2274023801+002	.6405560414+000
6	-.3154514522-003	.3250716379-004	6	.1064059130+003	.7611150380+002
7	-.3135243280-004	.2504551839-004	7	.3210219644+003	.8326167888+003
8	-.1542132910-005	.4236080425-005	8	-.1450429702+004	.6889656024+004
9	.1054152786-006	.4334501734-006	9	-.4430299957+005	.4488124246+005
10	.2895065562-007	.2790147494-007	10	-.6164020404+006	.1399173043+006
11	.3239512145-008	.6659294115-009	11	-.6598779009+007	-.2360392879+007
12	.2340832759-009	-.8827784142-010	12	-.5234596631+008	-.6717204515+008
13	.1056568436-010	-.1397204055-010	13	-.1098443456+009	-.1119979765+010
14	.9724639306-013	-.1137516482-011	14	.7213631904+010	-.1435668279+011
15	-.3191733481-013	-.6184129116-013	15	.2110807211+012	-.1272380978+012
16	-.3431724788-014	-.2024366541-014	16	.4041658502+013	.7966362202+011
17	-.2149609627-015	.6046392159-017	17	.5899416348+014	.3877357793+014
18	-.9128481268-017	.6098075895-017	18	.5427555121+015	.1189840585+016
19	-.2173797264-018	.4851488595-018	19	-.3399717572+016	.2538833783+017
20	.3396872101-020	.2424980919-019	20	-.3382639779+018	.4065751299+018
30	-.5382209724-034	.8854202752-034	30	-.8969408729+030	.8391746747+032
31	.4096163869-037	.3104154558-035	31	-.1463902788+034	.2282999071+034
40	-.1548576885-049	.5365633061-050	40	.2510462387+048	.3106808725+048
41	-.2337946504-051	.2901796286-051	41	.2061327742+049	.1701907667+050
50	-.2062790464-066	-.7762149285-067	50	.2335069354+065	.4686445641+064
51	-.3958275883-068	.7982250347-069	51	.9265811793+066	.8753708723+066
60	-.2031976100-084	-.3580182247-084	60	.9357871087+082	-.5068666312+082
61	-.5555127086-086	-.3004282862-086	61	.6810944572+084	.4256497033+083
70	.2638991552-103	-.1457304879-102	70	.9395119326+100	-.2358177161+101
71	-.7241571741-105	-.1815120532-104	71	.1529434805+103	-.1121946298+103
80	.9950785703-122	-.8310772102-122	80	-.7906458002+119	-.2413197924+120
81	.4667582566-124	-.1426397224-123	81	.5194856093+121	-.2103553420+122
90	.3291427827-141	.9467752102-145	90	-.7547088756+139	-.4711862162+139
91	.2878231100-143	-.1798121580-143	91	-.3742853841+141	-.7670164444+141
99	.9182796787-160	.2813331601-159	99	-.6901909441+157	.5776429615+157
100	.2130857625-161	.1782513395-161	100	-.9401635692+159	.1307425416+159

REAL X = .1600000000+001 IMAGINARY X = -.3000000000+001

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.1316941107+001	.2652087802+001	0	.2639374004+001	-.1309675828+001
1	.2133391509+001	-.6008381291+000	1	-.6117485556+000	-.2148399161+001
2	.3667674853-001	-.1240625815+001	2	-.1220758140+001	-.5866785452-001
3	-.4982010929+000	-.2101355121+000	3	-.1569406575+000	.5237698410+000
4	-.1376288667+000	.1319977279+000	4	.1172199028+000	.2810267136+000
5	.1846109869-001	.5311024213-001	5	-.3534187429+000	.1000815475+000
6	.1412344691-001	.1562524576-002	6	-.9409968010+000	-.1137547758+001
7	.1679838784-002	-.2650472190-002	7	.2498023338+001	-.5321523469+001
8	-.3183102807-003	-.5260701870-003	8	.2684247744+002	-.1864585616+000
9	-.1079062671-003	.8349923541-005	9	.6148335842+002	.1233054920+003
10	-.6628833537-005	.1596468980-004	10	-.4731503451+003	.6276119246+003
11	.1634271903-005	.1926639124-005	11	-.4857106442+004	-.8776922633+003
12	.3315244105-006	-.7670700766-007	12	-.9750098003+004	-.3241302886+005
13	.1053795801-007	-.4116762884-007	13	.1814118854+006	-.1745356732+006
14	-.3685507205-008	-.3298785371-008	14	.1910648279+007	.6513076339+006
15	-.5044984070-009	.1898807392-009	15	.2585916490+007	.1716822724+008
16	-.6709899967-011	.5481762116-010	16	-.1289334576+009	.9381532772+008
17	.4392246707-011	.3033646671-011	17	-.1394921903+010	-.6928570678+009
18	.4324704829-012	-.2267805198-012	18	-.3352217721+009	-.1612035474+011
19	.4484010295-016	-.4239954084-013	19	.1544670886+012	-.8508003371+011
20	-.3098138474-014	-.1635142494-014	20	.1695240955+013	.1120242783+013
30	.3092915483-026	-.4174782982-026	30	.3922984474+024	-.8374496136+024
31	-.1206493693-027	-.2526279150-027	31	.1660134616+026	-.8177626226+024
40	.2021920301-039	.2109171711-039	40	-.1194919097+038	-.3325138859+037
41	.1150625419-040	-.3254927898-041	41	-.6369901625+038	-.2888460545+039
50	-.1169070262-053	.7798836839-054	50	-.1993287906+051	.2059914114+052
51	.4592911122-056	.4613372553-055	51	-.5683822289+053	.2353216343+053
60	-.3742237268-069	-.8641266726-069	60	.2570205487+067	-.2127421619+066
61	-.2593465061-070	-.2096205532-071	61	.4969553611+068	.7721277483+068
70	.1186312366-084	-.2739536885-085	70	-.4467260847+082	-.1652834351+083
71	.7510879718-087	-.2794768009-086	71	.5180270246+084	-.4859311075+084
80	.1682205176-102	.3831077385-101	80	-.4294014250+099	.2057409531+099
81	.7215688829-103	.3447558301-103	81	-.1816450326+101	-.1336674582+101
90	-.3471004154-118	-.4894475116-119	90	.2732360659+116	.3742551336+116
91	-.3834909406-120	.5262324282-120	91	-.1074326045+118	.2221157128+118
99	.6216473388-134	-.1035346242-134	99	-.7495101899+131	-.2221415829+132
100	.3400230909-136	-.1010167978-135	100	.9411786999+133	-.9988580369+133

REAL X = .1600000000+001 IMAGINARY X = -.1000000000+002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.1403846302+003	.1078392150+004	0	.1078392146+004	-.1403846293+003
1	.9754347932+003	-.1098729899+003	1	-.1098729909+003	-.9754347980+003
2	-.6259332064+002	-.7982083219+003	2	-.7982083161+003	.6259331929+002
3	-.5911751449+003	.1709478582+002	3	.1709478791+002	.5911751524+003
4	-.1363324556+002	.3965819710+003	4	.3965819604+003	.1363324917+002
5	.2412463605+003	.2662389868+002	5	.2662389192+002	-.2412463769+003
6	.2647750345+002	-.1332660558+003	6	-.1332660287+003	-.2647751712+002
7	-.6695502543+002	-.2008975780+002	7	-.2008972823+002	.6695507340+002
8	-.1276316004+002	.3063922268+002	8	.3063913235+002	.1276322819+002
9	.1278355694+002	.7059820690+001	9	.7059654202+001	-.1278373655+002
10	.3473516906+001	-.4864121583+001	10	-.4863747877+001	-.3473946722+001
11	-.1685899958+001	-.1541060306+001	11	-.1539891303+001	.1686703942+001
12	-.6224760335+000	.5303851399+000	12	.5286278826+000	.6258159245+000
13	.1502591007+000	.2305727590+000	13	.2205770884+000	-.1540439615+000
14	.7876062995-001	-.3769110345-001	14	-.3018014643-001	-.1100094236+000
15	-.8050508355-002	-.2492030696-001	15	.7683295494-001	.1893592991-001
16	-.7329370768-002	.1305526083-002	16	.1010191217-001	.3514041014+000
17	.7649914988-004	.2009224895-002	17	-.1202320206+001	.1944783405+000
18	.5143867498-003	.5261838401-004	18	-.1330278889+001	-.4348296507+001
19	.3058834525-004	-.1231279202-003	19	.1612155965+002	-.7503588539+001
20	-.2756341099-004	-.1121557174-004	20	.3967256489+002	.6108761338+002
30	-.5131484339-012	.1686005700-011	30	-.7790331375+009	.3954066552+009
31	.2496571691-012	.1196114109-012	31	-.3138973794+010	-.4395646625+010
40	.4451391168-020	.1151817278-020	40	-.1052746955+018	-.2350653917+018
41	.2193423431-021	-.5081408347-021	41	.1754821500+019	-.1137069814+019
50	.2524989739-030	-.1065213005-029	50	.8081228301+027	-.3392376245+027
51	-.9873123113-031	-.4041294844-031	51	.4635378678+028	.7509959190+028
60	-.3661903219-040	-.8335133841-041	60	.8088190524+037	.1986176488+038
61	-.1140940245-041	.2853095023-041	61	-.2208252618+039	.1333305637+039
70	-.5574273329-052	.2473451519-051	70	-.2536663857+049	.1023408497+049
71	.1660555835-052	.6609262530-053	71	-.1969426219+050	-.3281621792+050
80	.4117102827-063	.9373509578-064	80	-.5413708461+060	-.1336197922+061
81	.9728147851-065	-.2426206898-064	81	.1970515702+062	-.1187527327+062
90	.4671762382-076	-.2004392562-075	90	.2437627859+073	-.1000785598+073
91	-.1051833292-076	-.4283156761-077	91	.2457939305+074	.4033847516+074
99	.5225323389-088	-.6658075966-087	99	.7184043481+084	-.1747218199+084
100	-.3263716466-088	-.7855427337-089	100	.5623537338+085	.1343475795+086

REAL X = .1600000000+001 IMAGINARY X = -.1000000000+003

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.1774555786+040	.1343769397+042	0	.1343769397+042	.1774555786+040
1	.1330332304+042	.1778309577+040	1	.1778309577+040	-.1330332304+042
2	.1785059760+040	-.1303861109+042	2	-.1303861109+042	-.1785059760+040
3	-.1265141657+042	-.1793361625+040	3	-.1793361625+040	.1265141657+042
4	-.1801216176+040	.1215303778+042	4	.1215303778+042	.1801216176+040
5	.1155766379+042	.1806252613+040	5	.1806252613+040	-.1155766379+042
6	.1805942061+040	-.1088170232+042	6	-.1088170232+042	-.1805942061+040
7	-.1014302900+042	-.1797821711+040	7	-.1797821711+040	.1014302900+042
8	-.1779708217+040	.9360205999+041	8	.9360205999+041	.1779708217+040
9	.8551717278+041	.1749881191+040	9	.1749881191+040	-.8551717278+041
10	.1707221552+040	-.7735263737+041	10	-.7735263737+041	-.1707221552+040
11	-.6927154155+041	-.1651294764+040	11	-.1651294764+040	.6927154155+041
12	-.1582374990+040	.6141818527+041	12	.6141818527+041	.1582374990+040
13	.5391459711+041	.1501412128+040	13	.1501412128+040	-.5391459711+041
14	.1409948916+040	-.4685848523+041	14	-.4685848523+041	-.1409948916+040
15	-.4032257379+041	-.1309999315+040	15	-.1309999315+040	.4032257379+041
16	-.1203901842+040	.3435519061+041	16	.3435519061+041	.1203901842+040
17	.2898190750+041	.1094162368+040	17	.1094162368+040	-.2898190750+041
18	.9833001697+039	-.2420799335+041	18	-.2420799335+041	-.9833001697+039
19	-.2002142270+041	-.8737090619+039	19	-.8737090619+039	.2002142270+041
20	-.7675425472+039	.1639618638+041	20	.1639618638+041	.7675425472+039
30	.1127123489+039	-.1297923575+040	30	-.1297923575+040	-.1127123489+039
31	-.9548016507+039	-.8751408993+038	31	-.8751408993+038	.9548016507+039
40	-.5548393823+037	.3921957652+038	40	.3921957650+038	.5548393826+037
41	.2624066202+038	.3876133881+037	41	.3876133877+037	-.2624066205+038
50	.9782196621+035	-.4652611026+036	50	-.4652594980+036	-.9782231295+035
51	-.2839964431+036	-.6188475067+035	51	-.6188416695+035	.2839990529+036
60	-.6565521887+033	.2238265707+034	60	.1930936750+034	.7482251204+033
61	.1250700559+034	.3782836714+033	61	.2108434255+033	-.1795527298+034
70	.1771857039+031	-.4522034512+031	70	.1368003470+036	-.5416425450+035
71	-.2321413563+031	-.9346201524+030	71	.1070509699+036	.2632847974+036
80	-.2021533070+028	.3976942685+028	80	-.1359183513+039	.6952678133+038
81	.1882353953+028	.9809135156+027	81	-.1482596543+039	-.2828049712+039
90	.1021430137+025	-.1577377810+025	90	.2892634868+042	-.1879876740+042
91	-.6907588067+024	-.4579744851+024	91	.4311056601+042	.6480413004+042
99	-.7127219190+021	-.5695068131+021	99	.4245813601+045	.5303861492+045
100	-.2386670936+021	.2918295675+021	100	-.1265498976+046	.1036669461+046

REAL X = .2000000000+001 IMAGINARY X = .0000000000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.4546487134+000	.0000000000	0	.2080734183+000	.0000000000
1	.4353977750+000	.0000000000	1	-.3506120043+000	.0000000000
2	.1984479491+000	.0000000000	2	-.7339914247+000	.0000000000
3	.6072209766-001	.0000000000	3	-.1484366557+001	.0000000000
4	.1407939276-001	.0000000000	4	-.4461291526+001	.0000000000
5	.2635169770-002	.0000000000	5	-.1859144531+002	.0000000000
6	.4140409734-003	.0000000000	6	-.9779165769+002	.0000000000
7	.5609655703-004	.0000000000	7	-.6170543296+003	.0000000000
8	.6683204324-005	.0000000000	8	-.4530115815+004	.0000000000
9	.7106797192-006	.0000000000	9	-.3788893009+005	.0000000000
10	.6825300865-007	.0000000000	10	-.3554147201+006	.0000000000
11	.5976871612-008	.0000000000	11	-.3693965631+007	.0000000000
12	.4810148901-009	.0000000000	12	-.4212519003+008	.0000000000
13	.3581451402-010	.0000000000	13	-.5228709098+009	.0000000000
14	.2481049119-011	.0000000000	14	-.7016632092+010	.0000000000
15	.1606982166-012	.0000000000	15	-.1012182944+012	.0000000000
16	.9773237728-014	.0000000000	16	-.1561866932+013	.0000000000
17	.5602059151-015	.0000000000	17	-.2566958608+014	.0000000000
18	.3036578644-016	.0000000000	18	-.4476558894+015	.0000000000
19	.1531133992-017	.0000000000	19	-.8255964368+016	.0000000000
20	.7632641101-019	.0000000000	20	-.1605436493+018	.0000000000
30	.5836617888-033	.0000000000	30	-.1407393871+032	.0000000000
31	.1854707915-034	.0000000000	31	-.4287774791+033	.0000000000
40	.1660978779-048	.0000000000	40	-.3720929322+047	.0000000000
41	.4004630253-050	.0000000000	41	-.1506033748+049	.0000000000
50	.4011575290-065	.0000000000	50	-.1235021944+064	.0000000000
51	.7792349663-067	.0000000000	51	-.6234364785+065	.0000000000
60	.1344412351-082	.0000000000	60	-.3075315225+081	.0000000000
61	.2186605360-084	.0000000000	61	-.1860048703+083	.0000000000
70	.8673626016-101	.0000000000	70	-.4090016522+099	.0000000000
71	.1213328655-102	.0000000000	71	-.2882873032+101	.0000000000
80	.1361180595-119	.0000000000	80	-.2282246122+118	.0000000000
81	.1670408709-121	.0000000000	81	-.1836921007+120	.0000000000
90	.6193531370-139	.0000000000	90	-.4461276886+137	.0000000000
91	.6769686681-141	.0000000000	91	-.4036957052+139	.0000000000
99	.9413748726-157	.0000000000	99	-.2669574755+155	.0000000000
100	.9367832591-159	.0000000000	100	-.2655955830+157	.0000000000

REAL X = .2000000000+001 IMAGINARY X = -.1000000000-002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4546487230+000	.4353978145-003	0	.2080736976+000	-.3506119404-003
1	.4353978935+000	-.1925093522-004	1	-.3506118126+000	-.5586853294-003
2	.1984479683+000	-.1377258716-003	2	-.7339908660+000	-.7503746380-003
3	.6072207544-001	-.7700375941-004	3	-.1484363956+001	-.2234739150-002
4	.1407937737-001	-.2552361348-004	4	-.4461277769+001	-.9668846703-002
5	.2635164293-002	-.6173881369-005	5	-.1859135923+002	-.5131293261-001
6	.4140395997-003	-.1186025569-005	6	-.9779103134+002	-.3236784372+000
7	.5609628723-004	-.1896545394-006	7	-.6170491336+003	-.2370417156+001
8	.6683160528-005	-.2602209633-007	8	-.4530067425+004	-.1976837946+002
9	.7106736443-006	-.3129798942-008	9	-.3788843033+005	-.1849135480+003
10	.6825227194-007	-.3352872212-009	10	-.3554090524+006	-.1916879886+004
11	.5976792178-008	-.3239166287-010	11	-.3693895623+007	-.2180821728+005
12	.4810071760-009	-.2850262235-011	12	-.4212425460+008	-.2701174507+006
13	.3581383230-010	-.2303120635-012	13	-.5228574670+009	-.3617935598+007
14	.2480993836-011	-.1720653663-013	14	-.7016425364+010	-.5210128793+008
15	.1606940737-012	-.1195454520-014	15	-.1012149071+012	-.8027196217+009
16	.9772949138-014	-.7762502958-016	16	-.1561808022+013	-.1317446507+011
17	.5601871331-015	-.4731337964-017	17	-.2566850233+014	-.2294608127+012
18	.3036463935-016	-.2717279095-018	18	-.4476348626+015	-.4226988092+013
19	.1561067997-017	-.1475426085-019	19	-.8255535286+016	-.8211042079+014
20	.7632282191-019	-.7596959772-021	20	-.1605344624+018	-.1677417266+016
30	.5835985991-033	-.8736085628-035	30	-.1407220086+032	-.2176588575+030
31	.1854493208-034	-.2868981698-036	31	-.4287211033+033	-.6846046805+031
40	.1660655708-048	-.3317748599-050	40	-.3720130331+047	-.7617906825+045
41	.4003811284-050	-.8199532627-052	41	-.1505694546+049	-.3158701443+047
50	.4010348770-065	-.1002016550-066	50	-.1234613189+064	-.3146449103+062
51	.7789869794-067	-.1985362022-068	51	-.6232220358+065	-.1619506950+064
60	.1343818151-082	-.4030476382-084	60	-.3073863055+081	-.9373017288+079
61	.2185606135-084	-.6664664865-086	61	-.1859141558+083	-.5762108479+081
70	.8668394086-101	-.3033963060-102	70	-.4087405369+099	-.1451049664+098
71	.1212575547-102	-.4304777112-104	71	-.2880980665+101	-.1037191972+100
80	.1360106069-119	-.5441655475-121	80	-.2280352717+118	-.9237606982+116
81	.1669056676-121	-.6761350542-123	81	-.1835359408+120	-.7526908135+118
90	.6187334148-139	-.2785503398-140	90	-.4456611265+137	-.2028659398+136
91	.6762760692-141	-.3078448334-142	91	-.4032642370+139	-.1855878253+138
99	.9402339075-157	-.4657024522-158	99	-.2666206502+155	-.1333943784+154
100	.9356246830-159	-.4681101166-160	100	-.2652537727+157	-.1340404022+156

REAL X = .2000000000+001 IMAGINARY X = -.1000000000-001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4546496760+000	.4354017242-002	0	.2081013523+000	-.3506056148-002
1	.4354096225+000	-.1925061758-003	1	-.3505928361+000	-.5586761116-002
2	.1984498742+000	-.1377278755-002	2	-.7339355599+000	-.7503256564-002
3	.6071987562-001	-.7700432202-003	3	-.1484106405+001	-.2234487650-001
4	.1407785306-001	-.2552338800-003	4	-.4459915977+001	-.9667306888-001
5	.2634622036-002	-.6173675140-004	5	-.1858283868+002	-.5130186589+000
6	.4139036074-003	-.1185946939-004	6	-.9772903400+002	-.3235874305+001
7	.5606957788-004	-.1896341557-005	7	-.6165348385+003	-.2369575271+002
8	.6678824940-005	-.2601801270-006	8	-.4525278089+004	-.1975973966+003
9	.7100722764-006	-.3129127155-007	9	-.3783896964+005	-.1848158876+004
10	.6817934575-007	-.3351931359-008	10	-.3548481616+006	-.1915677921+005
11	.5968929326-008	-.3238016925-009	11	-.3686967876+007	-.2179[illegible]0571+006
12	.4802436133-009	-.2849015804-010	12	-.4203169223+008	-.26988[illegible]9579+007
13	.3574635740-010	-.2301904533-011	13	-.5215273747+009	-.3614[illegible]4440+008
14	.2475522221-011	-.1719574834-012	14	-.6995972187+010	-.5204370892+009
15	.1602840610-012	-.1194576821-013	15	-.1008798026+012	-.8017200299+010
16	.9744389353-014	-.7755907564-015	16	-.1555980561+013	-.1315610502+012
17	.5583285121-015	-.4726732769-016	17	-.2556130411+014	-.2291051048+013
18	.3025113388-016	-.2714275773-017	18	-.4455551966+015	-.4219738817+014
19	.1554536066-017	-.1473588539-018	19	-.8213100608+016	-.8195539396+015
20	.7596772464-019	-.7586370872-020	20	-.1596259984+018	-.1673946220+017
30	.5773526154-033	-.8706992772-034	30	-.1390055386+032	-.2167156948+031
31	.1833272931-034	-.2858742287-035	31	-.4231536750+033	-.6814522989+032
40	.1628765000-048	-.3297553725-049	40	-.3641340836+047	-.7561417793+046
41	.3922982737-050	-.8146993518-051	41	-.1472251598+049	-.3134163598+048
50	.3889491940-065	-.9923369736-066	50	-.1194386744+064	-.3110860015+063
51	.7545561620-067	-.1965385047-067	51	-.6021230491+065	-.1600485906+065
60	.1285395966-082	-.3973869915-083	60	-.2931300439+081	-.9222916630+080
61	.2087385426-084	-.6567844264-085	61	-.1770108996+083	-.5666868828+082
70	.8155327792-101	-.2975607307-101	70	-.3831794827+099	-.1419825913+099
71	.1138743338-102	-.4219554910-103	71	-.2695790583+101	-.1014257408+101
80	.1255051951-119	-.5304409845-120	80	-.2095610516+118	-.8980667827+117
81	.1536914432-121	-.6586477956-122	81	-.1683045458+120	-.7312486445+119
90	.5583531287-139	-.2696374590-139	90	-.4003060520+137	-.1957871180+137
91	.6088201571-141	-.2977727623-141	91	-.3613371638+139	-.1789725971+139
99	.8294527787-157	-.4476507363-157	99	-.2339980159+155	-.1278015853+155
100	.8231792927-159	-.4495951339-159	100	-.2321625847+157	-.1283106521+157

REAL X = .2000000000+001 IMAGINARY X = -.1000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4547448879+000	.4357928247-001	0	.2108645255+000	-.3499745775-001
1	.4365831907+000	-.1921883254-002	1	-.3487027939+000	-.5577590664-001
2	.1986405758+000	-.1379283416-001	2	-.7284415807+000	-.7454525498-001
3	.6049964597-001	-.7706060323-002	3	-.1458564832+001	-.2209506121+000
4	.1392533089-001	-.2550081632-002	4	-.4325234783+001	-.9514657055+000
5	.2580411239-002	-.6153041608-003	5	-.1774290823+002	-.5020718716+001
6	.4003254330-003	-.1178084364-003	6	-.9164014935+002	-.3146075644+002
7	.5340727108-004	-.1875975040-004	7	-.5662333760+003	-.2286730123+003
8	.6247573983-005	-.2561041194-005	8	-.4058981238+004	-.1891117905+004
9	.6504060853-006	-.3062158918-006	9	-.3304734808+005	-.1752650826+005
10	.6096502818-007	-.3258282827-007	10	-.3008035777+006	-.1798538385+006
11	.5193696049-008	-.3123815987-008	11	-.3023326019+007	-.2023757464+007
12	.4052448895-009	-.2725419204-009	12	-.3321998313+008	-.2476939633+008
13	.2914666360-010	-.2181598250-010	13	-.3957486605+009	-.3275322960+009
14	.1942820441-011	-.1613107855-011	14	-.5075530757+010	-.4652354137+010
15	.1205679157-012	-.1108198266-012	15	-.6965137276+011	-.7063395877+011
16	.6993083563-014	-.7108780289-014	16	-.1017223681+013	-.1141288967+013
17	.3803362208-015	-.4276355937-015	17	-.1573346817+014	-.1955078998+014
18	.1945011081-016	-.2421591685-016	18	-.2565675660+015	-.3538767751+015
19	.9373682964-018	-.1295188694-017	19	-.4392410127+016	-.6747576730+016
20	.4264805318-019	-.6562474230-019	20	-.7861935280+017	-.1351676655+018
30	.4554048915-034	-.6042709130-033	30	-.3449228004+030	-.1353411355+032
31	.4851566031-036	-.1927433474-034	31	.1012886983+032	-.4118270166+033
40	-.7201723225-049	-.1590704452-048	40	.1616597381+047	-.3143740639+047
41	-.1928310030-050	-.3748266567-050	41	.7162215494+048	-.1236568491+049
50	-.3410714816-065	-.2569321230-065	50	.9591639349+063	-.6502119873+063
51	-.6874905593-067	-.4659301017-067	51	.4993594982+065	-.3032386040+065
60	-.1433687543-082	-.2104015419-083	60	.2836620933+081	-.2726160901+080
61	-.2348920670-084	-.2255537731-085	61	.1719627460+083	-.7885794360+081
70	-.8878787724-101	.3282287575-101	70	.3441605321+099	.1471400372+099
71	-.1219059998-102	.5212744763-103	71	.2368037639+101	.1155577457+101
80	-.9883835778-120	.1133888204-119	80	.1276065405+118	.1620585186+118
81	-.1143324931-121	.1452143371-121	81	.9594343504+119	.1352355479+120
90	-.1493616272-139	.6767358181-139	90	.6630653572+136	.3926466408+137
91	-.1262626961-141	.7478534655-141	91	.4212521342+138	.3574084447+139
99	.2454415451-157	.1036585464-156	99	-.6566615001+154	.2262845583+155
100	.2958307845-159	.1019314084-158	100	-.7639894658+156	.2213096034+157

REAL X = .2000000000+001 IMAGINARY X = -.5000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4570043990+000	.2226771812+000	0	.2765720627+000	-.1677722945+000
1	.4654356410+000	-.9217809366-002	1	-.3071149230+000	-.2690909595+000
2	.2033345562+000	-.7141915645-001	2	-.6151727919+000	-.3205143270+000
3	.5500987754-001	-.3921870213-001	3	-.9518126303+000	-.8469267464+000
4	.1017220682-001	-.1246961025-001	4	-.1822740905+001	-.3253207710+001
5	.1275526892-002	-.2823192867-002	5	-.3323458334+001	-.1486132569+002
6	.8406433069-004	-.4938827358-003	6	.3851260419+001	-.7797695369+002
7	-.5900919614-005	-.6963842268-004	7	.1461429807+003	-.4562839927+003
8	-.2826546766-005	-.8095988316-005	8	.1832953296+004	-.2884951853+004
9	-.5194778787-006	-.7825773787-006	9	.2028738709+005	-.1895742424+005
10	-.6890600885-007	-.6235997528-007	10	.2219355737+006	-.1212684466+006
11	-.7409799257-008	-.3924281257-008	11	.2472562680+007	-.6311487487+006
12	-.6755279449-009	-.1646433686-009	12	.2824773356+008	-.1952487503+005
13	-.5334312850-010	.4535524770-012	13	.3299111408+009	.8348301369+008
14	-.3684266279-011	.9632742797-012	14	.3898383071+010	.2108697911+010
15	-.2227353158-012	.1224586233-012	15	.4567717084+011	.4199440719+011
16	-.1166271966-013	.1085213257-013	16	.5092948594+012	.7771029241+012
17	-.5116689043-015	.7898178738-015	17	.4846384588+013	.1400321928+014
18	-.1695941794-016	.4976045171-016	18	.2165319543+014	.2498198571+015
19	-.2288095654-018	.2776054250-017	19	-.7152771831+015	.4430056437+016
20	.2289935760-019	.1384765182-018	20	-.3347523456+017	.7777288532+017
30	.7220998824-033	-.1259685317-032	30	-.1498687195+031	-.5279133914+031
31	.1291574588-034	-.4576921950-034	31	-.5039841619+031	-.1621311001+033
40	-.5229334244-048	.1982163252-048	40	.8807464012+046	.6112294282+046
41	-.1141054704-049	.7933955099-050	41	.2772113824+048	.3168172543+048
50	.1731405042-064	.5875403670-065	50	-.2619725443+063	.2167871830+062
51	.3648486167-066	.2997960140-067	51	-.1270381057+065	-.2084236321+064
60	-.4360110500-082	-.7057239988-082	60	.3462128978+080	-.3375101916+080
61	-.9962119149-084	-.9793852587-084	61	.2451392580+082	-.1428265528+082
70	-.9913644851-101	.7177779526-100	70	-.5097398958+097	.4722166407+098
71	.1124395000-102	.1038725374-101	71	-.1121648098+100	.3048041534+100
80	.1134238167-118	-.1041084317-118	80	-.1078262797+117	-.1633739395+117
81	.1072380873-120	-.1625636341-120	81	-.5073061272+118	-.1441861902+119
90	-.9472441119-138	.4879397306-139	90	.2702939155+136	.8252382223+135
91	-.1022002543-139	.3122315890-140	91	.2126215881+138	.1278459149+138
99	.1199521878-155	.1465371580-155	99	-.1032669575+154	.7687899927+153
100	.1558274478-157	.1159722844-157	100	-.1146966658+156	.4780787714+155

REAL X = .2000000000+001 IMAGINARY X = -.1000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4634364484+000	.4762463537+000	0	.4705807342+000	-.2990133436+000
1	.5607060428+000	-.1582751243-001	1	-.2154014861+000	-.5017355444+000
2	.2189073104+000	-.1588157430+000	2	-.4280211908+000	-.4323102012+000
3	.3592432091-001	-.8289666316-001	3	-.2083306943+000	-.7909060490+000
4	-.2263883374-002	-.2300086461-001	4	.9519637152+000	-.2073889708+001
5	-.2672744772-002	-.3981439489-002	5	.7368401543+001	-.4961552212+001
6	-.7370267467-003	-.3975076434-003	6	.4238443994+002	-.3546500630+001
7	-.1262744381-003	-.1869798148-005	7	.2222515878+003	.9671930279+002
8	-.1501048756-004	.7465540138-005	8	.1000967178+004	.1250617081+004
9	-.1179713747-005	.1599813388-005	9	.2332227151+004	.1181076525+005
10	-.3462779474-007	.2101293722-006	10	-.2815694879+005	.9737366202+005
11	.6296908024-008	.1983660055-007	11	-.6478199775+006	.6878688108+006
12	.1310986027-008	.1333129782-008	12	-.9095983373+007	.3251047501+007
13	.1473033400-009	.4962739985-010	13	-.1065672513+009	-.1365731067+008
14	.1190208572-010	-.1715827167-011	14	-.1068080853+010	-.7262131595+009
15	.7126518960-012	-.4988978180-012	15	-.8071134314+010	-.1460528429+011
16	.2796426273-013	-.5206402077-013	16	-.8461222069+010	-.2304203447+012
17	.9890915142-016	-.3783122124-014	17	.1417157278+013	-.3082787332+013
18	-.9767974376-016	-.2073249087-015	18	.4142817444+014	-.3300850135+014
19	-.1036503481-016	-.8116628249-017	19	.8559827344+015	-.1788745418+015
20	-.7050989950-018	-.1417635534-018	20	.1470712391+017	.3919230977+016
30	.4290748997-032	-.1616133185-031	30	.8809871761+029	-.4302270517+030
31	-.1209721659-033	-.5814727098-033	31	.7402707356+031	-.9406649360+031
40	.1372232453-046	.4665891774-047	40	-.3778263769+045	-.5119060882+044
41	.3870083480-048	-.5314027556-049	41	-.1140207081+047	-.7782858127+046
50	-.4145247272-063	.9832179907-063	50	-.2650377060+060	.4143685105+061
51	.1505755891-065	.2312197870-064	51	-.9444651097+062	.1619647169+063
60	-.9713358307-080	-.4955344159-080	60	.3390718658+078	-.2929680253+076
61	-.1982672211-081	-.1553010792-083	61	.1647630211+080	.8066643465+079
70	.1113067533-097	-.1834432062-097	70	-.1213075265+095	-.1473635056+096
71	.2733123449-100	-.3344544737-099	71	.3472711744+097	-.8651355816+097
80	.8362583570-116	.5964752669-116	80	-.2671889162+114	.4208743596+113
81	.1392207426-117	.2386468400-118	81	-.1855908546+116	-.5895262824+115
90	-.9121623276-135	.1095914071-134	90	.3963759021+132	.1687231092+133
91	-.3978733627-137	.1696366984-136	91	-.3239400829+134	.1364877016+135
99	-.1961506034-152	-.5579346603-152	99	.2730306482+150	-.2643690664+150
100	-.4728337873-154	-.4575587812-154	100	.3225369884+152	-.1017308753+152

REAL X = .2000000000+001 IMAGINARY X = -.3000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4463290318+000	.2753947028+001	0	.2746687313+001	-.4345829780+000
1	.2179827080+001	.9210018742-001	1	.7652662656-001	-.2186955029+001
2	.4959833370+000	-.1202328193+001	2	-.1197321542+001	-.5218009093+000
3	-.4109996749+000	-.4446795627+000	3	-.3954652248+000	.4040448585+000
4	-.2202698471+000	.5951995875-001	4	.1187480666+000	.3180977016+000
5	-.1760772011-001	.6960828461-001	5	-.1007788326+000	.2830287127+000
6	.1377421370-001	.1358215647-001	6	-.1007754362+001	-.9494922445-001
7	.4409678107-002	-.1121330571-002	7	-.1629882217+001	-.3496190247+001
8	.2834954428-003	-.9055720312-003	8	.9348684714+001	-.1361508210+002
9	-.1155997495-003	-.1349141586-003	9	.7949330278+002	.4563123254+001
10	-.2985570729-004	.4347127456-005	10	.2030088137+003	.3755010007+003
11	-.1923999421-005	.4273373550-005	11	-.1243354293+004	.2192405899+004
12	.3659574148-006	.5620435617-006	12	-.1623918608+005	.7829009372+003
13	.8896893016-007	-.3747657234-009	13	-.6573178990+005	-.9286886048+005
14	.5940912272-008	-.9255408315-008	14	.3218438818+006	-.7961054738+006
15	-.5232813011-009	-.1160181556-008	15	.6829433433+007	-.1305108045+007
16	-.1368011911-009	-.2123918292-010	16	.4158584235+008	.4342846013+008
17	-.9503276078-011	.1055817216-010	17	-.1264257379+009	.5384802435+009
18	.3521601225-012	.1333649319-011	18	-.5071603321+010	.1834949584+010
19	.1205664323-012	.4027577858-013	19	-.4441034731+011	-.3339707251+011
20	.8756464159-014	-.6896757252-014	20	.3918317205+011	-.6019105104+012
30	-.1317306769-025	.2682781405-025	30	-.7537476374+023	.1316655475+024
31	.8625747306-027	.1474633410-026	31	-.2564971908+025	.1663171106+024
40	.9212290277-040	-.3029714337-038	40	.9166357969+036	-.6572337096+036
41	-.1073408623-039	-.7609847212-040	41	.2370975893+038	.8995296918+037
50	.9907441320-053	.2432530728-052	50	-.1022894168+051	.2111629837+050
51	.9006668435-054	.1826867110-054	51	-.2080170932+052	-.2059541667+052
60	-.2272004597-067	-.2209278115-067	60	.7069532152+065	.1505004156+065
61	-.9078317554-069	.1955596620-069	61	.8942114441+066	.2255723304+067
70	.6898970538-083	.2608027395-083	70	-.2169250409+081	-.1549177477+081
71	.1511038242-084	-.1083189986-084	71	.3416419683+081	-.1042138678+083
80	-.4176051799-099	.1959107837-100	80	.2124959591+097	.3528550759+097
81	-.4758996856-101	.7927013864-101	81	-.7855890636+098	.1663456647+099
90	.6179788790-116	-.3016174178-116	90	-.2991041632+113	-.2207471726+114
91	.1804295596-118	-.1342582167-117	91	.8391583514+115	-.7394331492+115
99	-.2081802324-131	-.2566015784-132	99	.4336295694+129	.5032239224+129
100	-.2453293108-133	.2852214315-133	100	-.9845918449+130	.3532149620+131

REAL X = .2000000000+001 IMAGINARY X = -.1000000000+002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.2481020336+003	.1051050842+004	0	.1051050839+004	.2481020363+003
1	.9452170647+003	.2444585877+003	1	.2444585847+003	-.9452170686+003
2	.2321168871+003	-.7642886935+003	2	-.7642886890+003	-.2321168908+003
3	-.5554516460+003	-.2063532279+003	3	-.2063532227+003	.5554516517+003
4	-.1679976284+003	.3626486896+003	4	.3626486819+003	.1679976363+003
5	.2125445366+003	.1237367842+003	5	.1237367709+003	-.2125445477+003
6	.8208352778+002	-.1116668792+003	6	-.1116668626+003	-.8208355213+002
7	-.5244005567+002	-.4904909431+002	7	-.4904904639+002	.5244008143+002
8	-.2646658089+002	.2188340632+002	8	.2188336637+002	.2646668178+002
9	.8016566972+001	.1294060455+002	9	.1294037864+002	-.8016625050+001
10	.5754222050+001	-.2509457307+001	10	-.2509393792+001	-.5754756873+001
11	-.6255731204+000	-.2334937012+001	11	-.2333605528+001	.6255434631+000
12	-.8671148457+000	.9321768912-001	12	.9380868845-001	.8705811782+000
13	-.1539000041-001	.2953425221+000	13	.2859626424+000	.1850683524-001
14	.9236925932-001	.2017842704-001	14	.6625322832-002	-.1185688461+000
15	.1063685809-001	-.2652104157-001	15	.4835691616-001	-.6615731074-001
16	-.6974950790-002	-.4283028671-002	16	.2194025150+000	.2232697186+000
17	-.1472889730-002	.1670910289-002	17	-.6175726965+000	.9040287661+000
18	.3603269236-003	.4508393887-003	18	-.3677480947+001	-.1693158470+001
19	.1253283697-003	-.6818839915-004	19	.4024640425+001	-.1519212181+002
20	-.1062414949-004	-.3199930164-004	20	.6366641807+002	.5391468704+001
30	-.2146507918-011	.1095590984-012	30	.1175359365+009	.7020093685+009
31	-.4652762861-013	.3368721276-012	31	-.4099340175+010	.1510440769+010
40	-.1663151387-020	.5792382466-020	40	-.1723841553+018	.9162092181+017
41	.6508729732-021	.3318889843-021	41	-.9893787773+018	-.1223614785+019
50	.1238154149-029	.9170172973-030	50	-.4616025443+027	-.4117366541+027
51	.1117172707-030	-.1019109822-030	51	.3152283227+028	-.5320725865+028
60	.4803658268-040	-.3018609072-040	60	.4944887171+037	-.1320454401+038
61	-.1673891892-041	-.4364822656-041	61	.1661574657+039	.2743615071+038
70	-.7368612812-052	-.4043406050-051	70	.1675576016+049	-.3533350877+047
71	-.2917242775-052	-.4444112769-054	71	.5001219599+049	.2274162858+050
80	-.7187953475-063	-.1501619027-063	80	.3254571882+060	.7562832364+060
81	-.1790600154-064	.4213188809-064	81	-.1075162484+062	.7390892526+061
90	-.2154642720-075	.3177840853-075	90	-.9817492570+072	.1002051030+073
91	.1498589672-076	.1518648089-076	91	-.2090174249+074	-.1366409183+074
99	-.9443991710-087	.9322463253-087	99	-.2023678900+084	.3091988425+084
100	.3695137214-088	.5609333442-088	100	-.6704468032+085	-.2702315674+085

REAL X = .2000000000+001 IMAGINARY X = -.1000000000+003

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.5346688749+041	.1232842378+042	0	.1232842378+042	.5346688749+041
1	.1220411992+042	.5295707938+041	1	.5295707938+041	-.1220411992+042
2	.5195200578+041	-.1195927041+042	2	-.1195927041+042	-.5195200578+041
3	-.1160120237+042	-.5048006260+041	3	-.5048006260+041	.1160120237+042
4	-.4858216616+041	.1114044657+042	4	.1114044657+042	.4858216616+041
5	.1059022178+042	.4630986377+041	5	.4630986377+041	-.1059022178+042
6	.4372300969+041	-.9965803861+041	6	-.9965803861+041	-.4372300969+041
7	-.9283821854+041	-.4088715249+041	7	-.4088715249+041	.9283821854+041
8	-.3787079236+041	.8561526148+041	8	.8561526148+041	.3787079236+041
9	.7816073438+041	.3474266747+041	9	.3474266747+041	-.7816073438+041
10	.3156921696+041	-.7063869044+041	10	-.7063869044+041	-.3156921696+041
11	-.6320000297+041	-.2841234654+041	11	-.2841234654+041	.6320000297+041
12	-.2532759392+041	.5597785729+041	12	.5597785729+041	.2532759392+041
13	.4908454686+041	.2236275718+041	13	.2236275718+041	-.4908454686+041
14	.1955701426+041	-.4260961805+041	14	-.4260961805+041	-.1955701426+041
15	-.3661931304+041	-.1694052772+041	15	-.1694052772+041	.3661931304+041
16	-.1453449942+041	.3115718071+041	16	.3115718071+041	.1453449942+041
17	.2624566517+041	.1235161587+041	17	.1235161587+041	-.2624566517+041
18	.1039680859+041	-.2188844408+041	18	-.2188844408+041	-.1039680859+041
19	-.1807327343+041	-.8668244528+040	19	-.8668244528+040	.1807327343+041
20	-.7158460101+040	.1477510048+041	20	.1477510048+041	.7158460101+040
30	.6260652896+039	-.1143377228+040	30	-.1143377228+040	-.6260652896+039
31	-.8387382536+039	-.4657899903+039	31	-.4657899903+039	.8387382536+039
40	-.2134194086+038	.3341758704+038	40	.3341758702+038	.2134194085+038
41	.2226972913+038	.1446330665+038	41	.1446330666+038	-.2226972916+038
50	.2888304513+036	-.3785918233+036	50	-.3785904103+036	-.2888302797+036
51	-.2298442267+036	-.1786998409+036	51	-.1787000997+036	.2298465308+036
60	-.1592314286+034	.1711573120+034	60	.1433746517+034	.1585495023+034
61	.9494498512+033	.9020349530+033	61	.9090440147+033	-.1443278872+034
70	.3689533485+031	-.3179913071+031	70	.1269600167+036	-.1073348566+035
71	-.1616353470+031	-.1920136438+031	71	.2354457841+035	.2449766755+036
80	-.3719582322+028	.2492163616+028	80	-.1293706325+039	.2678001067+038
81	.1163354367+028	.1784713392+028	81	-.5939168981+038	-.2698395264+039
90	.1691303298+025	-.8376549086+024	90	.2818840230+042	-.9763559601+041
91	-.3593447502+024	-.7508938144+024	91	.2287693458+042	.6329207883+042
99	-.3018566670+021	-.8657844664+021	99	.2589932628+045	.5268758645+045
100	-.3595318867+021	.1196574257+021	100	-.1259643646+046	.6413862873+045

REAL X = .3000000000+001 IMAGINARY X = .0000000000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4704000269-001	.0000000000	0	.3299974989+000	.0000000000
1	.3456774998+000	.0000000000	1	.6295916360-001	.0000000000
2	.2986374971+000	.0000000000	2	-.2670383353+000	.0000000000
3	.1520516620+000	.0000000000	3	-.5080230557+000	.0000000000
4	.5614971433-001	.0000000000	4	-.9183407947+000	.0000000000
5	.1639748096-001	.0000000000	5	-.2247023328+001	.0000000000
6	.3974382510-002	.0000000000	6	-.7320736743+001	.0000000000
7	.8248432532-003	.0000000000	7	-.2947616922+002	.0000000000
8	.1498337563-003	.0000000000	8	-.1400601094+003	.0000000000
9	.2421469897-004	.0000000000	9	-.7641977839+003	.0000000000
10	.3526003893-005	.0000000000	10	-.4699859189+004	.0000000000
11	.4673282793-006	.0000000000	11	-.3213481654+005	.0000000000
12	.5684624784-007	.0000000000	12	-.2416670676+006	.0000000000
13	.6390452741-008	.0000000000	13	-.1981757413+007	.0000000000
14	.6678268289-009	.0000000000	14	-.1759414965+008	.0000000000
15	.6520660515-010	.0000000000	15	-.1680950226+009	.0000000000
16	.5974757643-011	.0000000000	16	-.1719387750+010	.0000000000
17	.5157289240-012	.0000000000	17	-.1874517023+011	.0000000000
18	.4207980399-013	.0000000000	18	-.2169742649+012	.0000000000
19	.3255325114-014	.0000000000	19	-.2657270764+013	.0000000000
20	.2394224927-015	.0000000000	20	-.3432754567+014	.0000000000
30	.1075567526-027	.0000000000	30	-.5105339782+026	.0000000000
31	.5133054971-029	.0000000000	31	-.1035482834+028	.0000000000
40	.1782055445-041	.0000000000	40	-.2315623857+040	.0000000000
41	.6449401738-043	.0000000000	41	-.6243377856+041	.0000000000
50	.2496493438-056	.0000000000	50	-.1324326072+055	.0000000000
51	.7277401060-058	.0000000000	51	-.4454547564+056	.0000000000
60	.4843699349-072	.0000000000	60	-.5694438846+070	.0000000000
61	.1182082428-073	.0000000000	61	-.2295320499+072	.0000000000
70	.1807148676-088	.0000000000	70	-.1309360965+087	.0000000000
71	.3792867984-090	.0000000000	71	-.6151169237+088	.0000000000
80	.1638905469-105	.0000000000	80	-.1264156386+104	.0000000000
81	.3017400491-107	.0000000000	81	-.6781919876+105	.0000000000
90	.4307423096-123	.0000000000	90	-.4277809243+121	.0000000000
91	.7063227512-125	.0000000000	91	-.2580227755+123	.0000000000
99	.2519966196-139	.0000000000	99	-.6650104431+137	.0000000000
100	.3761973541-141	.0000000000	100	-.4410222995+139	.0000000000

REAL X = .3000000000+001 IMAGINARY X = -.1000000000-002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4703991098-001	.3456775242-003	0	.3299976429+000	.6295920377-004
1	.3456775731+000	.1834116886-003	1	.6295928409-001	-.2880247246-003
2	.2986375625+000	-.4704001113-004	2	-.2670382698+000	-.3299974706-003
3	.1520516687+000	-.9590195988-004	3	-.5080228343+000	-.4103255765-003
4	.5614969950-001	-.5846880790-004	4	-.9183478927+000	-.1022557595-002
5	.1639746961-001	-.2335475106-004	5	-.2247019515+001	-.3575694660-002
6	.3974377598-002	-.7123920301-005	6	-.7320718377+001	-.1483467825-001
7	.8248416911-003	-.1774799808-005	7	-.2947606850+002	-.7128227374-001
8	.1498333570-003	-.3753417545-006	8	-.1400594889+003	-.3907034262+000
9	.2421461305-004	-.6911803279-007	9	-.7641935426+003	-.2407260345+001
10	.3525987870-005	-.1128600485-007	10	-.4699827328+004	-.1646857437+002
11	.4673256381-006	-.1656688290-008	11	-.3213455567+005	-.1238390100+003
12	.5684585726-007	-.2209941251-009	12	-.2416647556+006	-.1015085363+004
13	.6390400330-008	-.2702407348-010	13	-.1981735364+007	-.9006495655+004
14	.6678203886-009	-.3051310288-011	14	-.1759392452+008	-.8598857196+005
15	.6520587502-010	-.3200572426-012	15	-.1680925724+009	-.8789078025+006
16	.5974680795-011	-.3134952847-013	16	-.1719359436+010	-.9575043174+007
17	.5157213747-012	-.2880371776-014	17	-.1874482402+011	-.1107508726+009
18	.4207910859-013	-.2492222849-015	18	-.2169697991+012	-.1355414857+010
19	.3255264811-014	-.2037752448-016	19	-.2657210162+013	-.1749801736+011
20	.2394175524-015	-.1579357925-017	20	-.3432668265+014	-.2376333617+012
30	.1075516061-027	-.1070418553-029	30	-.5105061064+026	-.5249386778+024
31	.5132792252-029	-.5280332429-031	31	-.1035422621+028	-.1099387023+026
40	.1781901871-041	-.2369559886-043	40	-.2315403520+040	-.3155774360+038
41	.6448617283-043	-.8791139505-045	41	-.6242754647+041	-.8717268777+039
50	.2496154869-056	-.4153364780-058	50	-.1324131635+055	-.2247223123+053
51	.7276373687-058	-.1235021425-059	51	-.4453867813+056	-.7707565285+054
60	.4842749166-072	-.9674966351-074	60	-.5693245321+070	-.1156349276+069
61	.1181842661-073	-.2400572018-075	61	-.2294823600+072	-.4737614956+070
70	.1806664669-088	-.4212522034-090	70	-.1308989789+087	-.3095692835+085
71	.3791822647-090	-.8967802923-092	71	-.6149376307+088	-.1474823955+087
80	.1638330873-105	-.4366899560-107	80	-.1263690582+104	-.3410406874+102
81	.3016315779-107	-.8140541882-109	81	-.6779359159+105	-.1852221755+104
90	.4305508558-123	-.1291333511-124	90	-.4275821910+121	-.1296679724+120
91	.7060017470-125	-.2141049393-126	91	-.2579002692+123	-.7907141737+121
99	.2518609298-139	-.8310664689-141	99	-.6646376704+137	-.2215266223+136
100	.3759906500-141	-.1253210123-142	100	-.4407701355+139	-.1483821588+138

REAL X = .3000000000+001 IMAGINARY X = -.1000000000-001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4703083204-001	.3456799429-002	0	.3300119001+000	.6296318001-003
1	.3456848291+000	.1834141373-002	1	.6297121282-001	-.2880248679-002
2	.2986440424+000	-.4704084742-003	2	-.2670317862+000	-.3299946766-002
3	.1520523246+000	-.9590316511-003	3	-.5080009121+000	-.4103094929-002
4	.5614823190-001	-.5846911307-003	4	-.9182585924+000	-.1022490933-001
5	.1639634640-001	-.2335461711-003	5	-.2246642009+001	-.3575377613-001
6	.3973891338-002	-.7123775259-004	6	-.7318900259+001	-.1483294660+000
7	.8246870389-003	-.1774731195-004	7	-.2946609755+002	-.7127163750+000
8	.1497938266-003	-.3753189964-005	8	-.1399980720+003	-.3906308983+001
9	.2420610655-004	-.6911206939-006	9	-.7637737109+003	-.2406716722+002
10	.3524401682-005	-.1128470025-006	10	-.4696673605+004	-.1646413224+003
11	.4670641765-006	-.1656442139-007	11	-.3210873464+005	-.1237997117+004
12	.5680719279-007	-.2209531896-008	12	-.2414359195+006	-.1014711189+005
13	.6385212097-008	-.2701797807-009	13	-.1979553045+007	-.9002680787+005
14	.6671828726-009	-.3050487831-010	14	-.1757164276+008	-.8594710878+006
15	.6513360185-010	-.3199557215-011	15	-.1678500792+009	-.8784292482+007
16	.5967074074-011	-.3133797564-012	16	-.1716557338+010	-.9569198116+008
17	.5149741243-012	-.2879151933-013	17	-.1871056217+011	-.1106755541+010
18	.4201027864-013	-.2491021218-014	18	-.2165278692+012	-.1354393742+011
19	.3249296247-014	-.2036642959-015	19	-.2651213353+013	-.1748348857+012
20	.2389285926-015	-.1578393813-016	20	-.3424128667+014	-.2374168958+013
30	.1070424574-027	-.1068843291-028	30	-.5077496349+026	-.5239316953+025
31	.5106802448-029	-.5272000707-030	31	-.1029468060+028	-.1097145231+027
40	.1766717770-041	-.2363165442-042	40	-.2293628164+040	-.3145388774+039
41	.6391035059-043	-.8766160690-044	41	-.6181169512+041	-.8687208958+040
50	.2462706171-056	-.4135544742-057	50	-.1304933199+055	-.2235923932+054
51	.7174884173-058	-.1229501205-058	51	-.4386756794+056	-.7667318101+055
60	.4748967909-072	-.9614532642-073	60	-.5575525786+070	-.1148106360+070
61	.1158180591-073	-.2385059614-074	61	-.2245819395+072	-.4702753897+071
70	.1758949402-088	-.4176441736-089	70	-.1272426494+087	-.3066003370+086
71	.3688782249-090	-.8888735897-091	71	-.5972784971+088	-.1460287160+088
80	.1581761018-105	-.4317794406-106	80	-.1217872546+104	-.3368073603+103
81	.2909539787-107	-.8046659916-108	81	-.6527517510+105	-.1828670848+105
90	.4117307802-123	-.1272887827-123	90	-.4080661578+121	-.1276459657+121
91	.6744518916-125	-.2109773266-125	91	-.2458719905+123	-.7781169647+122
99	.2385429812-139	-.8166679003-140	99	-.6280904480+137	-.2173705436+137
100	.3557062917-141	-.1231051948-141	100	-.4160522951+139	-.1455434967+139

REAL X = .3000000000+001 IMAGINARY X = -.1000000000+000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.4612232584-001	.3459218784-001	0	.3314376592+000	.6336077784-002
1	.3464107734+000	.1836591087-001	1	.6416395273-001	-.2880395262-001
2	.2992924563+000	-.4712450897-002	2	-.2663858545+000	-.3297163692-001
3	.1521178693+000	-.9602374275-002	3	-.5058178927+000	-.4087057357-001
4	.5600131909-001	-.5849963231-002	4	-.9093706766+000	-.1015849191+000
5	.1628397117-001	-.2334120736-002	5	-.2209119049+001	-.3543820818+000
6	.3925271530-002	-.7109264469-003	6	-.7138477083+001	-.1466077640+001
7	.8092357145-003	-.1767869713-003	7	-.2847841761+002	-.7021538912+001
8	.1458480718-003	-.3730442280-004	8	-.1339266155+003	-.3834378667+002
9	.2335797941-004	-.6851634789-005	9	-.7223620877+003	-.2352879357+003
10	.3366460062-005	-.1115446468-005	10	-.4386338859+004	-.1602488655+004
11	.4410684839-006	-.1631888883-006	11	-.2957443280+005	-.1199202582+005
12	.5296944188-007	-.2168735885-007	12	-.2190381011+006	-.9778385726+005
13	.5871198431-008	-.2641112774-008	13	-.1766585161+007	-.8627454378+006
14	.6041516224-009	-.2968696619-009	14	-.1540404573+008	-.8187694544+007
15	.5800391826-010	-.3098721310-010	15	-.1443385940+009	-.8315514113+008
16	.5218495060-011	-.3019202808-011	16	-.1445828841+010	-.8997898600+009
17	.4416289299-012	-.2758328827-012	17	-.1541257025+011	-.1033309695+011
18	.3527327898-013	-.2372187952-013	18	-.1741539533+012	-.1255063339+012
19	.2666843779-014	-.1927105553-014	19	-.2078562500+013	-.1607377524+013
20	.1913640634-015	-.1483379043-015	20	-.2612141099+014	-.2164692031+014
30	.5956650575-028	-.9172835120-028	30	-.2592483297+026	-.4296185800+026
31	.2696172922-029	-.4472803092-029	31	-.4960717828+027	-.8879939467+027
40	.4359269486-042	-.1769275454-041	40	-.4683628369+039	-.2214370043+040
41	.1363663260-043	-.6455845588-043	41	-.1062041244+041	-.6005907364+041
50	-.2366865206-057	-.2555962540-056	50	.1611833006+054	-.1277154242+055
51	-.9387238878-059	-.7427698865-058	51	.6848546612+055	-.4273022030+056
60	-.2069563878-072	-.4560356638-072	60	.2440099712+070	-.4934182550+070
61	-.5422077864-074	-.1096076455-073	61	.1048770951+072	-.1953876871+072
70	-.1293791135-088	-.1362398748-088	70	.8966308263+086	-.8833926828+086
71	-.2810819153-090	-.2768823856-090	71	.4345859814+088	-.4005049101+088
80	-.1521549343-105	-.7877966901-106	80	.1091095915+104	-.5196501308+103
81	-.2849711805-107	-.1356976091-107	81	.5939878899+105	-.2569675994+105
90	-.4481176500-123	-.6513555091-124	90	.4041863550+121	-.4507378882+120
91	-.7383759998-125	-.8230105582-126	91	.2444264170+123	-.1903490540+122
99	-.2630227633-139	.4128494933-140	99	.6178760594+137	.1181787996+137
100	-.3906022903-141	.7472725116-142	100	.4066980145+139	.9193683235+138

REAL X = .3000000000+001 IMAGINARY X = -.5000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.2372449023-001	.1759142292+000	0	.3660315914+000	.3649294066-001
1	.3642171434+000	.9482860906-001	1	.9301586694-001	-.1442931894+000
2	.3152713343+000	-.2458631604-001	2	-.2521307712+000	-.1618026601+000
3	.1536786193+000	-.4948984201-001	3	-.4581461284+000	-.1862329543+000
4	.5234655237-001	-.2962033420-001	4	-.7175182402+000	-.4343490684+000
5	.1352661508-001	-.1150362154-001	5	-.1424926485+001	-.1430659687+001
6	.2750552081-002	-.3376760698-002	6	-.3515340759+001	-.5516879616+001
7	.4431660757-003	-.8007112949-003	7	-.9519784012+001	-.2429993706+002
8	.5461636417-004	-.1592677017-003	8	-.2309447033+002	-.1204177742+003
9	.4316090424-005	-.2722532031-004	9	-.7157719317+001	-.6608470341+003
10	-.5877528897-007	-.4066395477-005	10	.6576952079+003	-.3959179985+004
11	-.1004894174-006	-.5368478634-006	11	.8980799659+004	-.2555780587+005
12	-.2338896743-007	-.6313218451-007	12	.9810878523+005	-.1755229183+006
13	-.3837096220-008	-.6641426511-008	13	.1023688970+007	-.1265021552+007
14	-.5186580729-009	-.6252583389-009	14	.1071233419+008	-.9407930551+007
15	-.6095852873-010	-.5241322248-010	15	.1144777237+009	-.7042807165+008
16	-.6394708083-011	-.3853756875-011	16	.1258267495+010	-.5068521717+009
17	-.6078617344-012	-.2391682272-012	17	.1425649988+011	-.3109782883+010
18	-.5286360714-013	-.1113439068-013	18	.1664556447+012	-.7821629434+010
19	-.4232769842-014	-.1716752895-015	19	.1998854495+013	.2421615191+012
20	-.3133013325-015	.3979384321-016	20	.2460584990+014	.7284638969+013
30	.3518985680-028	.1586977031-027	30	-.1241126680+026	.3091841722+026
31	.2946884120-029	.7291188454-029	31	-.3471205192+027	.5690776239+027
40	.2945007688-041	-.9260791572-042	40	-.1176092824+040	-.5957821363+039
41	.1009707565-042	-.5132050566-043	41	-.2823920681+041	-.2078555825+041
50	-.1879966979-056	-.4588159559-056	50	.3456853535+054	-.5595042755+054
51	-.7712599562-058	-.1245891040-057	51	.1437047130+056	-.1642157026+056
60	-.9824749300-072	.5014646940-072	60	.1983188967+070	.1466357245+070
61	-.2193364552-073	.1623817692-073	61	.6817979898+071	.7048710173+071
70	.2483976540-088	.4012293332-088	70	-.3258224837+086	.3721015589+086
71	.6617926497-090	.7551104704-090	71	-.1773009660+088	.1452359991+088
80	.3947011644-105	-.2916196435-105	80	-.2897593982+103	-.2990856112+103
81	.6371238695-107	-.6580825203-107	81	-.1252087573+105	-.1813407602+105
90	-.9730463530-123	-.1113883094-122	90	.9494613813+120	-.7801446165+120
91	-.1900127149-124	-.1560413124-124	91	.6335497950+122	-.3649153980+122
99	-.7883836273-139	.5800204311-139	99	.1177496036+137	.1210670670+137
100	-.1032551724-140	.1062121239-140	100	.6295233060+138	.9078792797+138

REAL X = .3000000000+001 IMAGINARY X = -.1000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.5101617088-001	.3708080643+000	0	.4748759152+000	.1030105044+000
1	.4224902575+000	.2091513066+000	1	.1831778950+000	-.2924173214+000
2	.3685120107+000	-.5582481105-001	2	-.2222906133+000	-.3112327252+000
3	.1581901640+000	-.1086325179+000	3	-.3609974523+000	-.2855770730+000
4	.3973009623-001	-.6157036166-001	4	-.3359000855+000	-.5411773448+000
5	.4494421318-002	-.2185037201-001	5	-.5887316816-001	-.1477911835+001
6	-.8630966680-003	-.5592002532-002	6	.1767321649+001	-.4400692195+001
7	-.5908950316-003	-.1080463531-002	7	.1267232745+002	-.1338726958+002
8	-.1752356778-003	-.1564259042-003	8	.7533905627+002	-.3683352975+002
9	-.3688288818-004	-.1520923293-004	9	.4341738601+003	-.4638733649+002
10	-.6099242209-005	-.3442110123-006	10	.2487587886+004	.5973560459+003
11	-.8194946162-006	.2322949121-006	11	.1398318212+005	.9033664985+004
12	-.8954894030-007	.6220828830-007	12	.7321893929+005	.9389625123+005
13	-.7643156770-008	.1039489943-007	13	.3001182345+006	.8782355675+006
14	-.4268580135-009	.1353873841-008	14	-.1106727221+005	.7830941079+007
15	.3257914273-011	.1459147419-009	15	-.2310643263+008	.6721885673+008
16	.4820916368-011	.1323279292-010	16	-.4232572120+009	.5456744853+009
17	.8009411345-012	.9989320397-012	17	-.5967865768+010	.3938209748+010
18	.9270340517-013	.5928746697-013	18	-.7602306747+011	.1991799768+011
19	.8703035114-014	.2161442810-014	19	-.9115847746+012	-.6413378512+011
20	.6924787036-015	-.5674915078-016	20	-.1033939703+014	-.4325463905+013
30	-.5180757897-027	.9428808817-028	30	.8683849132+025	.4727337763+025
31	-.2320021636-028	.1277242479-028	31	.1295545912+027	.1393892894+027
40	.1422243666-040	-.3897400879-041	40	-.2209068620+039	-.1470718235+039
41	.4673768098-042	-.3129779806-042	41	-.4166488177+040	-.5360408669+040
50	-.3282108551-055	.1199613149-055	50	.7028406442+053	.5579580891+053
51	-.8397363193-057	.6690147745-057	51	.1563373207+055	.2399502089+055
60	.1042326043-070	-.4793887236-071	60	-.1665457397+069	-.1557777906+069
61	.2152843615-072	-.2618551853-072	61	-.4155187138+070	-.7667410549+070
70	-.6321434762-087	.3539295936-087	70	.2087330429+085	.2289466722+085
71	-.1078744930-088	.1185337802-088	71	.5595103838+086	.1262414102+087
80	.9248656339-104	-.6177669412-104	80	-.1084284784+102	-.1395308141+102
81	.1323221577-105	-.1705199250-105	81	-.2987724620+103	-.8483086183+103
90	-.3888664034-121	.3060724966-121	90	.1943369962+119	.2949496653+119
91	-.4702176139-123	.7145057233-123	91	.5209003172+120	.1952940880+121
99	.4241386795-137	-.1906564550-137	99	-.2515540870+135	-.2314955935+135
100	.5382214547-139	-.4957525238-139	100	-.1040600941+137	-.1882396519+137

REAL X = .3000000000+001 IMAGINARY X = -.3000000000+001

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.1416145411+001	.1889728259+001	0	.1896772071+001	.1425531207+001
1	.1345793126+001	.1504461682+001	1	.1494685555+001	-.1336011046+001
2	.1336811133+001	-.4648008549+000	2	-.4814237703+000	-.1346193952+001
3	.1553835310+000	-.7776197831+000	3	-.7740437368+000	-.1870037233+000
4	-.2483072668+000	-.2613414392+000	4	-.2034562454+000	.2249719157+000
5	-.1358322724+000	.1314672412-001	5	.1314014952+000	.2192772288+000
6	-.2482089347-001	.3641793410-001	6	.4235073387-001	.4179390782+000
7	.3148145976-002	.1198019724-001	7	-.9451762414+000	.7780173642+000
8	.2740765304-002	.1402923944-002	8	-.4350334743+001	-.8358362712+000
9	.6424045450-003	-.2397443705-003	9	-.9012569442+001	-.1547216858+002
10	.5270626153-004	-.1278333916-003	10	.2480573203+002	-.7669916748+002
11	-.1051575914-004	-.2320058468-004	11	.3642797177+003	-.1661548555+003
12	-.4081096937-005	-.1412593059-005	12	.2008526799+004	.8361778061+003
13	-.6030070153-006	.3102096997-006	13	.4520507751+004	.1201909071+005
14	-.2837828550-007	.9500513458-007	14	-.3575215011+005	.7359201526+005
15	.6653819278-008	.1182007086-007	15	-.5330173070+006	.1708735909+006
16	.1685985657-008	.4432978093-009	16	-.3601017489+007	-.1944667882+007
17	.1809638827-009	-.1090117973-009	17	-.8576905531+007	-.3067214313+008
18	.5539142634-011	-.2357731137-010	18	.1324899035+009	-.2270081160+009
19	-.1412415051-011	-.2223575361-011	19	.2225481359+010	-.5521901672+009
20	-.2666008196-012	-.5662630858-013	20	.1792237502+011	.1110340086+011
30	-.5391350402-024	.3748284667-023	30	-.6034392490+021	.8226819668+021
31	.1537082600-024	.2034835283-024	31	-.1451043436+023	.2156516956+022
40	.1961481165-035	.2135273525-036	40	-.1154602070+034	-.9175131483+033
41	.7845257677-037	-.6337882003-037	41	-.3122040580+034	-.2798279150+035
50	.7637400256-050	-.8718339986-049	50	.1706547618+047	-.2048894225+047
51	-.2321457686-050	-.2757899813-050	51	.6322719173+048	-.5649053537+047
60	-.5380535395-063	-.3944014773-064	60	.2738733010+061	.2352914932+061
61	-.1407093635-064	.1217775932-064	61	.7652316713+061	.1026914593+063
70	-.4030367800-079	.6395352242-078	70	-.1721387047+076	.1960089558+076
71	.1258365356-079	.1425142032-079	71	-.8651992715+077	.5530057687+076
80	.1849656750-093	.1022321683-094	80	-.5895348286+091	-.5263064800+091
81	.3590277968-095	-.3218520317-095	81	-.1675574627+092	-.2994294995+093
90	.7636072810-111	-.1551416411-109	90	.5622677327+107	-.6218548290+107
91	-.2419541495-111	-.2667199956-111	91	.3572204055+109	-.1777699024+108
99	-.1384359638-124	-.1514234213-124	99	.5766988211+122	-.2636498782+121
100	-.4326343325-126	-.1919340721-127	100	.1999323992+124	.1826192644+124

REAL X = .3000000000+001 IMAGINARY X = -.1000000000+002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.9575010691+003	.4426690726+003	0	.4426690732+003	.9575010734+003
1	.3757039913+003	.8818404911+003	1	.8818404664+003	-.3757039905+003
2	.7458141076+003	-.2664517867+003	2	-.2664517880+003	-.7458141131+003
3	-.1508434321+003	-.5763916051+003	3	-.5763915981+003	.1508434299+003
4	-.4047159398+003	.5853193394+002	4	.5853193795+002	.4047159495+003
5	.2263574946+001	.2567212164+003	5	.2567212024+003	-.2263567087+001
6	.1463247855+003	.2147534482+002	6	.2147532864+002	-.1463248068+003
7	.2447836823+002	-.7452157823+002	7	-.7452154457+002	-.2447840302+002
8	-.3366640651+002	-.1855530615+002	8	-.1855522821+002	.3366645982+002
9	-.1129107178+002	.1333249823+002	9	.1333241789+002	.1129125307+002
10	.4521766558+001	.5845661752+001	10	.5845225787+001	-.4521865095+001
11	.2642285773+001	-.1242152655+001	11	-.1242134459+001	-.2643363952+001
12	-.2260708796+000	-.1056513178+001	12	-.1053790638+001	.2275252942+000
13	-.3760199161+000	-.7904301428-002	13	-.4797847118-002	.3829670495+000
14	-.3177730222-001	.1192138586+000	14	.1015912892+000	.4518032312-001
15	.3348189502-001	.1851153130-001	15	-.3432005696-001	-.7661693959-001
16	.7696949318-002	-.8195878198-002	16	.8702784820-001	-.2081582409+000
17	-.1677878617-002	-.2652803473-002	17	.7435675475+000	.1510345915+000
18	-.7950781200-003	.2527416800-003	18	.1442793579+000	.2741252495+001
19	.1028143393-004	.2112935832-003	19	-.9901809885+001	.3130271734+001
20	.5010959084-004	.1084647105-004	20	-.2197288241+002	-.3480973012+002
30	.4092514393-011	-.8940846058-012	30	-.3771918053+008	-.3554279589+009
31	.4249239181-013	-.6778954481-012	31	.1986485226+010	-.7974382223+009
40	.1275694506-019	-.7842722548-020	40	.1844594436+017	-.7459099466+017
41	-.4923934341-021	-.1793395911-020	41	.6040836114+018	-.2420427016+017
50	.3226025898-029	-.3644840781-029	50	.9898451176+026	-.1638424748+027
51	-.2599915282-030	-.4144759050-030	51	.1806845386+028	.4764855633+027
60	.9918261406-040	-.2047372212-039	60	.2513381914+037	-.2344165726+037
61	-.1419236147-040	-.1292620199-040	61	.3452653763+038	.2036211906+038
70	.3957126589-051	-.2052047089-050	70	.2845229539+048	-.1509889309+048
71	-.1348088562-051	-.7002876589-052	71	.3062090074+049	.3118179090+049
80	-.2930435149-063	-.4722630152-062	80	.1214504974+060	-.2895631802+059
81	-.2942823415-063	-.6805938042-064	81	.9654246918+060	.1673746963+061
90	-.9528099390-075	-.2985475966-074	90	.1679133463+072	.2325830483+070
91	-.1782760731-075	.3428985923-077	91	.7949459548+072	.2809192742+073
99	.8921498206-086	-.9992959799-086	99	.1861883500+083	-.3053739475+083
100	-.3640600585-087	-.5911544951-087	100	.6607599041+084	.1740714419+084

REAL X = .3000000000+001 IMAGINARY X = -.1000000000+003

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.1323726340+042	.2293853466+041	0	.2293853466+041	.1323726340+042
1	.2266967949+041	.1310569733+042	1	.1310569733+042	-.2266967949+041
2	.1284648445+042	-.2214121059+041	2	-.2214121059+041	-.1284648445+042
3	-.2137109042+041	-.1246726887+042	3	-.1246726887+042	.2137109042+041
4	-.1197904425+042	.2038500220+041	4	.2038500220+041	.1197904425+042
5	.1921494656+041	.1139562332+042	5	.1139562332+042	-.1921494656+041
6	.1073298807+042	-.1789754122+041	6	-.1789754122+041	-.1073298807+042
7	-.1647214818+041	-.1000856327+042	7	-.1000856327+042	.1647214818+041
8	-.9240459324+041	.1497896037+041	8	.1497896037+041	.9240459324+041
9	.1345717497+041	.8446730103+041	9	.8446730103+041	-.1345717497+041
10	.7644687389+041	-.1194336554+041	10	-.1194336554+041	-.7644687389+041
11	-.1047014123+041	-.6850306853+041	11	-.6850306853+041	.1047014123+041
12	-.6077751452+041	.9065152280+040	12	.9065152280+040	.6077751452+041
13	.7750469508+040	.5339028005+041	13	.5339028005+041	-.7750469508+040
14	.4643782344+041	-.6542334781+040	14	-.6542334781+040	-.4643782344+041
15	-.5451252652+040	-.3999228776+041	15	-.3999228776+041	.5451252652+040
16	-.3410201311+041	.4482372149+040	16	.4482372149+040	.3410201311+041
17	.3636093557+040	.2879307820+041	17	.2879307820+041	-.3636093557+040
18	.2407164205+041	-.2908828272+040	18	-.2908828272+040	-.2407164205+041
19	-.2293839898+040	-.1992683825+041	19	-.1992683825+041	.2293839898+040
20	-.1633397696+041	.1782100759+040	20	.1782100759+040	.1633397696+041
30	.1305417114+040	-.4441368310+038	30	-.4441368310+038	-.1305417114+040
31	-.2408726302+038	-.9611551460+039	31	-.9611551460+039	.2408726302+038
40	-.3970458519+038	-.2665092299+037	40	-.2665092308+037	.3970458517+038
41	-.2089850250+037	.2657254981+038	41	.2657254983+038	.2089850237+037
50	.4700150427+036	.9137408988+035	50	.9137491932+035	-.4700138003+036
51	.5981447417+035	-.2866306614+036	51	-.2866326663+036	-.5981309603+035
60	-.2222112668+034	-.7819615520+033	60	-.9767211021+033	.2005835515+034
61	-.4576723156+033	.1238105064+034	61	.1616953686+034	.1057189591+033
70	.4309142721+031	.2373754572+031	70	.1039809451+036	.8313414231+035
71	.1262050287+031	-.2199324801+031	71	-.1570559556+036	.2035271564+036
80	-.3510807032+028	-.2868190208+028	80	-.1211832660+039	-.6539078578+038
81	-.1396530540+028	.1644761849+028	81	.1319390136+039	-.2558991338+039
90	.1219836866+025	.1477471015+025	90	.2962020190+042	.9192116473+041
91	.6625966116+024	-.5248470482+024	91	-.1938519141+042	.6720899975+042
99	.8171439056+021	-.4502836181+021	99	-.7035588831+044	.6048451471+045
100	-.1789066861+021	-.3416700197+021	100	-.1459148770+046	-.1385550998+045

REAL X = .5000000000+001 IMAGINARY X = .0000000000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.1917848549+000	.0000000000	0	-.5673243709-001	.0000000000
1	-.9508940808-001	.0000000000	1	.1804383675+000	.0000000000
2	.1347312101+000	.0000000000	2	.1649954576+000	.0000000000
3	.2298206182+000	.0000000000	3	-.1544290991-001	.0000000000
4	.1870176553+000	.0000000000	4	-.1866155315+000	.0000000000
5	.1068111615+000	.0000000000	5	-.3204650467+000	.0000000000
6	.4796689986-001	.0000000000	6	-.5184075714+000	.0000000000
7	.1790277818-001	.0000000000	7	-.1027394639+001	.0000000000
8	.5741434675-002	.0000000000	8	-.2563776345+001	.0000000000
9	.1618099715-002	.0000000000	9	-.7689444934+001	.0000000000
10	.4073442442-003	.0000000000	10	-.2665611441+002	.0000000000
11	.9274611037-004	.0000000000	11	-.1042662356+003	.0000000000
12	.1928786347-004	.0000000000	12	-.4529685692+003	.0000000000
13	.3693206998-005	.0000000000	13	-.2160576611+004	.0000000000
14	.6554543131-006	.0000000000	14	-.1121414513+005	.0000000000
15	.1084280182-006	.0000000000	15	-.6288146513+005	.0000000000
16	.1679939976-007	.0000000000	16	-.3786509387+006	.0000000000
17	.2448020198-008	.0000000000	17	-.2436214730+007	.0000000000
18	.3367416303-009	.0000000000	18	-.1667485217+008	.0000000000
19	.4386786530-010	.0000000000	19	-.1209576913+009	.0000000000
20	.5427726761-011	.0000000000	20	-.9267951403+009	.0000000000
30	.4282730217-021	.0000000000	30	-.7760717570+019	.0000000000
31	.3419992523-022	.0000000000	31	-.9401810041+020	.0000000000
40	.1210347585-032	.0000000000	40	-.2055758716+031	.0000000000
41	.7317268114-034	.0000000000	41	-.3517264059+032	.0000000000
50	.2857479350-045	.0000000000	50	-.6964109188+043	.0000000000
51	.1390347013-046	.0000000000	51	-.1403223624+045	.0000000000
60	.9285901110-059	.0000000000	60	-.1786114181+057	.0000000000
61	.3780914088-060	.0000000000	61	-.4314878111+058	.0000000000
70	.5782161370-073	.0000000000	70	-.2459324803+071	.0000000000
71	.2024178147-074	.0000000000	71	-.6926437806+072	.0000000000
80	.8732233016-088	.0000000000	80	-.1425339371+086	.0000000000
81	.2681093536-089	.0000000000	81	-.4585106079+087	.0000000000
90	.3816013506-103	.0000000000	90	-.2900049665+101	.0000000000
91	.1043397689-104	.0000000000	91	-.1049007269+103	.0000000000
99	.2223967141-117	.0000000000	99	-.4524781791+115	.0000000000
100	.5535650303-119	.0000000000	100	-.1799713983+117	.0000000000

REAL X = .5000000000+001 IMAGINARY X = -.1000000000-002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.1917849318+000	-.9508943291-004	0	-.5673250155-001	.1804383866-003
1	-.9508948257-001	.1537491038-003	1	.1804384247+000	.1289078088-003
2	.1347312261+000	.1759281540-003	2	.1649955366+000	-.8144109429-004
3	.2298206681+000	.4912528735-004	3	-.1544287846-001	-.1773497938-003
4	.1870176826+000	-.4280297601-004	4	-.1866155159+000	-.1711726130-003
5	.1068111625+000	-.5884426725-004	5	-.3204649751+000	-.1979424802-003
6	.4796689148-001	-.3965750312-004	6	-.5184073141+000	-.4053054095-003
7	.1790277094-001	-.1932245416-004	7	-.1027393777+001	-.1125423335-002
8	.5741430791-002	-.7568194912-005	8	-.2563773218+001	-.3587400701-002
9	.1618098113-002	-.2505234727-005	9	-.7689432375+001	-.1281510428-001
10	.4073436962-003	-.7219421520-006	10	-.2665605890+002	-.5095396198-001
11	.9274594885-004	-.1847534993-006	11	-.1042659677+003	-.2235826161+000
12	.1928782146-004	-.4259764120-007	12	-.4529671677+003	-.1073450717+001
13	.3693197190-005	-.8946877497-008	13	-.2160568707+004	-.5596637905+001
14	.6554522333-006	-.1726842550-008	14	-.1121409734+005	-.3148180687+002
15	.1084276137-006	-.3084843319-009	15	-.6288115674+005	-.1900061870+003
16	.1679932703-007	-.5130999573-010	16	-.3786488232+006	-.1224529137+004
17	.2448008038-008	-.7986515595-011	17	-.2436199360+007	-.8391702220+004
18	.3367397291-009	-.1168400079-011	18	-.1667473427+008	-.6092806302+005
19	.4386758709-010	-.1612698630-012	19	-.1209567391+009	-.4671545518+006
20	.5427688096-011	-.2107136937-013	20	-.9267870643+009	-.3771569801+007
30	.4282657771-021	-.2535424902-023	30	-.7760567611+019	-.4745346882+017
31	.3419930568-022	-.2093923207-024	31	-.9401616332+020	-.5939507811+018
40	.1210310411-032	-.9609514644-035	40	-.2055688970+031	-.1672637226+029
41	.7317031681-034	-.5956909658-036	41	-.3317145940+032	-.2765909796+030
50	.2857340736-045	-.2843531767-047	50	-.6963743368+043	-.7067998361+041
51	.1390276788-046	-.1411495637-048	51	-.1403146994+045	-.1452360990+043
60	.9285248243-059	-.1110502070-060	60	-.1785979989+057	-.2171484910+055
61	.3780639189-060	-.4597459905-062	61	-.4314543231+058	-.5332445266+056
70	.5781605672-073	-.8074532905-075	70	-.2459074613+071	-.3483261607+069
71	.2023977945-074	-.2867252988-076	71	-.6925713225+072	-.9949120541+070
80	.8731133596-088	-.1394419137-089	80	-.1425150755+086	-.2304458904+084
81	.2680747397-089	-.4335657684-091	81	-.4584484290+087	-.7504972984+085
90	.3815404083-103	-.6858033382-105	90	-.2899565561+101	-.5269683574+099
91	.1043227301-104	-.1896060821-106	91	-.1048828298+103	-.1927161327+101
99	.2223536717-117	-.4397641317-119	99	-.4523870102+115	-.9037452665+113
100	.5534557020-119	-.1105694445-120	100	-.1799344092+117	-.3630643766+115

REAL X = .5000000000+001 IMAGINARY X = -.1000000000-001

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.1917925424+000	-.9509169112-003	0	-.5673888254-001	.1804402749-002
1	-.9509685723-001	.1537503017-002	1	.1804440895+000	.1289102555-002
2	.1347328113+000	.1759301259-002	2	.1650033563+000	-.8144122680-003
3	.2298256110+000	.4912557498-003	3	-.1543976445-001	-.1773506173-002
4	.1870203816+000	-.4280368236-003	4	-.1866139743+000	-.1711717610-002
5	.1068112702+000	-.5884482698-003	5	-.3204578834+000	-.1979380821-002
6	.4796606213-001	-.3965764825-003	6	-.5183818400+000	-.4052911825-002
7	.1790205465-001	-.1932239350-003	7	-.1027308434+001	-.1125372256-001
8	.5741046344-002	-.7568110549-004	8	-.2563463614+001	-.3587194676-001
9	.1617939468-002	-.2505183544-004	9	-.7688189061+001	-.1281418914+000
10	.4072894351-003	-.7219197622-005	10	-.2665056408+002	-.5094952960+000
11	.9272995802-004	-.1847455723-005	11	-.1042394526+003	-.2235593635+001
12	.1928366210-004	-.4259525094-006	12	-.4528284326+003	-.1073319342+002
13	.3692226295-005	-.8946245526-007	13	-.2159786322+004	-.5595842501+002
14	.6552463392-006	-.1726693217-007	14	-.1120936671+005	-.3147666919+003
15	.1083875656-006	-.3084523614-008	15	-.6285062925+005	-.1899709219+004
16	.1679212743-007	-.5130372993-009	16	-.3784394196+006	-.1224272804+005
17	.2446804216-008	-.7985382187-010	17	-.2434677946+007	-.8389735300+005
18	.3365515177-009	-.1168209591-010	18	-.1666306347+008	-.6091217487+006
19	.4383994780-010	-.1612399522-011	19	-.1208624836+009	-.4670197911+007
20	.5423860645-011	-.2106696065-012	20	-.9259876827+009	-.3770372345+008
30	.4275487326-021	-.2534108097-022	30	-.7745727082+019	-.4742118475+018
31	.3413798668-022	-.2092755569-023	31	-.9382446557+020	-.5935208385+019
40	.1206632063-032	-.9600276222-034	40	-.2048788425+031	-.1670671839+030
41	.7293636177-034	-.5950876292-035	41	-.3305459774+032	-.2762502917+031
50	.2843628098-045	-.2839166416-046	50	-.6927561398+043	-.7055265865+042
51	.1385329878-046	-.1409237512-047	51	-.1395568130+045	-.1449643175+044
60	.9220685028-059	-.1108013833-059	60	-.1772712738+057	-.2165927227+056
61	.3753454925-060	-.4586801057-061	61	-.4281435735+058	-.5318354716+057
70	.5726674627-073	-.8049682850-074	70	-.2434350216+071	-.3471248768+070
71	.2004188752-074	-.2858168088-075	71	-.6854111684+072	-.9913852058+071
80	.8622507855-088	-.1388777564-088	80	-.1406520965+086	-.2294159732+085
81	.2646549743-089	-.4317067802-090	81	-.4523073052+087	-.7470611524+086
90	.3755224548-103	-.6822747882-104	90	-.2851778360+101	-.5240064463+100
91	.1026402736-104	-.1886083248-105	91	-.1031162749+103	-.1916093648+102
99	.2181056462-117	-.4370172020-118	99	-.4433927806+115	-.8976281240+114
100	.5426663579-119	-.1098645353-119	100	-.1762855147+117	-.3605582390+116

REAL X = .5000000000+001 IMAGINARY X = -.1000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.1925539029+000	-.9533781903-002	0	-.5737759402-001	.1806291374-001
1	-.9583485657-001	.1538701211-001	1	.1810107497+000	.1291550159-001
2	.1348914098+000	.1761273931-001	2	.1657856946+000	-.8145450777-002
3	.2303202175+000	.4915434416-002	3	-.1512849902-001	-.1774330735-001
4	.1872903898+000	-.4287495133-002	4	-.1864605107+000	-.1710867584-001
5	.1068219770+000	-.5890081765-002	5	-.3197505563+000	-.1974989026-001
6	.4788305390-001	-.3967215877-002	6	-.5158407974+000	-.4038710890-001
7	.1783039740-001	-.1931632027-002	7	-.1018799967+001	-.1120276033+000
8	.5702601951-002	-.7559670859-003	8	-.2532618064+001	-.3566648784+000
9	.1602082008-002	-.2500064773-003	9	-.7564414954+001	-.1272297282+001
10	.4018683838-003	-.7196812120-004	10	-.2610400952+002	-.5050797343+001
11	.9113323976-004	-.1839532678-004	11	-.1016044905+003	-.2212442967+002
12	.1886859439-004	-.4235642428-005	12	-.4390551355+003	-.1060247620+003
13	.3595404996-005	-.8883124633-006	13	-.2082195191+004	-.5516753741+003
14	.6347290032-006	-.1711784057-006	14	-.1074074603+005	-.3096618282+004
15	.1043999950-006	-.3052619002-007	15	-.5983015915+005	-.1864695775+005
16	.1607589144-007	-.5067874548-008	16	-.3577466230+006	-.1198802671+006
17	.2327157085-008	-.7872389517-009	17	-.2284535083+007	-.8194765101+006
18	.3178641055-009	-.1149230026-009	18	-.1551292398+008	-.5933864716+007
19	.4109859788-010	-.1582615413-010	19	-.1115873416+009	-.4536855992+008
20	.5044674500-011	-.2062823973-011	20	-.8474456620+009	-.3652000744+009
30	.3575752053-021	-.2404196310-021	30	-.6315102468+019	-.4426717531+019
31	.2816535690-022	-.1977684977-022	31	-.7538686878+020	-.5515760292+020
40	.8554495685-033	-.8700295443-033	40	-.1400549663+031	-.1481668603+031
41	.5065726917-034	-.5363995689-034	41	-.2210905560+032	-.2435466095+032
50	.1571613987-045	-.2420939195-045	50	-.3638105879+043	-.5854827597+043
51	.7410203948-047	-.1193303908-046	51	-.7090576641+044	-.1193966689+045
60	.3442607248-059	-.8745153609-059	60	-.6135617466+056	-.1654266912+057
61	.1330266449-060	-.3568858367-060	61	-.1401468833+058	-.4024498379+058
70	.1017965987-073	-.5774835067-073	70	-.3733168768+070	-.2395655836+071
71	.3158317186-075	-.2028754953-074	71	-.9157540317+071	-.6765493059+072
80	-.2299710760-089	-.8870336416-088	80	.6426316775+084	-.1400922042+086
81	-.1251803312-090	-.2722078127-089	81	.2969140544+086	-.4500614532+087
90	-.8715169865-104	-.3786412055-103	90	.6939415730+100	-.2761830593+101
91	-.2590319971-105	-.1030529996-104	91	.2709155397+102	-.9935848375+102
99	-.8968504821-118	-.2083674007-117	99	.1834324044+115	-.4037979583+115
100	-.2336194560-119	-.5141742899-119	100	.7614531975+116	-.1590343039+117

REAL X = .5000000000+001 IMAGINARY X = -.5000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.2111933480+000	-.5068234144-001	0	-.7323444346-001	.9261474322-001
1	-.1140512977+000	.7839658951-001	1	.1948575227+000	.6757170755-001
2	.1387828787+000	.9047924822-001	2	.1849772268+000	-.4089744036-001
3	.2425017471+000	.2492770365-001	3	-.7662502083-002	-.8974964585-001
4	.1939028316+000	-.2231189208-001	4	-.1831579718+000	-.8457013834-001
5	.1070440326+000	-.3013453143-001	5	-.3036857399+000	-.9361142735-001
6	.4582634518-001	-.2001115938-001	6	-.4579451111+000	-.1854853101+000
7	.1607616438-001	-.9582463276-002	7	-.8274341693+000	-.5017623699+000
8	.4770914349-002	-.3676504492-002	8	-.1850741816+001	-.1550670492+001
9	.1221974543-002	-.1187838103-002	9	-.4880777918+001	-.5341338513+001
10	.2735230202-003	-.3328365617-003	10	-.1450296853+002	-.2038178689+002
11	.5385520024-004	-.8249248195-004	11	-.4695300164+002	-.8544554439+002
12	.9328923161-005	-.1834366099-004	12	-.1604265930+003	-.3901606734+003
13	.1408607983-005	-.3699442183-005	13	-.5540892044+003	-.1925462043+004
14	.1801678155-006	-.6824176982-006	14	-.1772575585+004	-.1020063458+005
15	.1790250724-007	-.1159294178-006	15	-.3767267568+004	-.5767035419+005
16	.8933566891-009	-.1823857522-007	16	.1404837824+005	-.3461279811+006
17	-.1464539801-009	-.2669573262-008	17	.3217511922+006	-.2194975929+007
18	-.5818498375-010	-.3649204429-009	18	.3737180826+007	-.1464358060+008
19	-.1248438821-010	-.4673185278-010	19	.3778853371+008	-.1023564920+009
20	-.2139157711-011	-.5620422940-011	20	.3671426476+009	-.7466490744+009
30	-.4891140882-021	-.9480619255-022	30	.6607469308+019	-.6266307893+018
31	-.3981745394-022	-.3615234862-023	31	.8001129594+020	.5228611964+018
40	-.1014549600-032	.1076307234-032	40	.1023220608+031	.1324548276+031
41	-.5477561914-034	.7123933805-034	41	.1421402165+032	.2280882288+032
50	.8960468154-046	.3557905285-045	50	-.1827104880+043	.5077860142+043
51	.6098701718-047	.1687227255-046	51	-.4663115281+044	.9763658440+044
60	.1187919690-058	.3981835046-059	60	-.1284153115+057	.2931588970+056
61	.4999235230-060	.1135938416-060	61	-.3141842563+058	.3929557684+057
70	.6394677216-073	-.5130188076-073	70	-.1232679397+071	-.1207983459+071
71	.2058495451-074	-.2020273865-074	71	-.3099583967+072	-.3713053698+072
80	-.1352774753-088	-.1294059131-087	80	.1923079908+085	-.9322024058+085
81	-.8133936126-090	-.3931479939-089	81	.9099866213+086	-.2907666991+087
90	-.5332174812-103	-.2696971191-103	90	.1718822367+101	-.6645094634+100
91	-.1531774156-104	-.5913956303-105	91	.6394083637+102	-.1763315165+102
99	-.3310242356-117	.1518039651-117	99	.2373132415+115	.1388510782+115
100	-.7861018148-119	.4603419752-119	100	.8798015675+116	.6403789615+116

REAL X = .5000000000+001 IMAGINARY X = -.1000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.2717356636+000	-.1210191605+000	0	-.1275191184+000	.1998819668+000
1	-.1751213937+000	.1661576796+000	1	.2395249883+000	.1545534188+000
2	.1515320504+000	.1966730456+000	2	.2478735248+000	-.8307903420-001
3	.2830035487+000	.5209179703-001	3	.1479167682-001	-.1867691200+000
4	.2154095506+000	-.5035620958-001	4	-.1776776584+000	-.1643585605+000
5	.1072516692+000	-.6468193070-001	5	-.2654173530+000	-.1592014241+000
6	.3883441250-001	-.4109524533-001	6	-.3164276783+000	-.2847056399+000
7	.1038198475-001	-.1863897638-001	7	-.3832990227+000	-.7107765148+000
8	.1866876052-002	-.6681426101-002	8	-.3791792054+000	-.1986745281+001
9	.8988863580-004	-.1983497685-002	9	.4427004580+000	-.6032277154+001
10	-.8895772853-004	-.5002814367-003	10	.6404941107+001	-.1973075553+002
11	-.4506753292-004	-.1087201286-003	11	.4135978732+002	-.6847639850+002
12	-.1420393790-004	-.2046348836-004	12	.2371078553+003	-.2465581183+003
13	-.3544198962-005	-.3319659508-005	13	.1335656939+004	-.8889108477+003
14	-.7512949096-006	-.4537195526-006	14	.7621133668+004	-.2981912155+004
15	-.1396431485-006	-.4868231845-007	15	.4449279823+005	-.7240488616+004
16	-.2314878803-007	-.2999561339-008	16	.2662572845+006	.1286656637+005
17	-.3455486191-008	.2654866786-009	17	.1628886250+007	.4268356363+006
18	-.4666780178-009	.1348748796-009	18	.1012281373+008	.5052797091+007
19	-.5704472515-010	.3008124714-010	19	.6320830791+008	.4993130167+008
20	-.6279291533-011	.5167386200-011	20	.3890425431+009	.4642444273+009
30	.7031122326-021	.3320031207-021	30	-.4059617025+019	.1033486446+019
31	.6147172533-022	.1512620635-022	31	-.4971875025+020	.2440583937+019
40	.4964311021-034	-.2667754637-032	40	.1597809680+030	-.9000531094+030
41	-.2948250412-034	-.1618161119-033	41	.5294291468+031	-.1346305879+032
50	-.7061467356-045	.2955190402-045	50	.2115246732+043	.1421684941+043
51	-.3146002962-046	.2127789449-046	51	.3544035246+044	.3577998075+044
60	.2184993388-058	.2090711245-058	60	-.4534815249+056	.2889626687+056
61	.1060281155-059	.6726004003-060	61	-.1188031127+058	.4597514111+057
70	.7947728844-073	-.2147352377-072	70	-.9586984075+069	-.6013309872+070
71	.1274855437-074	-.8073980591-074	71	.6693121447+070	-.1680426728+072
80	-.4199378365-087	.2226883230-088	80	.2812076048+085	.7168436030+084
81	-.1275508357-088	.3267067088-089	81	.8253425460+086	.3960299739+086
90	.9912704288-103	.2003275016-102	90	-.2962288506+100	.3846304467+100
91	.3807234924-104	.4934124877-104	91	-.1298253584+102	.1131347958+102
99	.1220008507-116	-.9620260310-117	99	-.4121279316+114	-.4831905809+114
100	.2556995145-118	-.3002463246-118	100	-.1206062898+116	-.2163552094+116

REAL X = .5000000000+001 IMAGINARY X = -.3000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.1168986779+001	-.1269730527+001	0	-.1267594864+001	.1160719771+001
1	-.1327469638+001	.8708488017+000	1	.8801593195+000	.1328578005+001
2	.3528196093+000	.1302539506+001	2	.1304218033+001	-.3415990670+000
3	.1012246039+001	.2425565448+000	3	.2295299988+000	-.1004363481+001
4	.5393840356+000	-.4276381560+000	4	-.4475950016+000	-.5505359879+000
5	.4123960250-001	-.3802138407+000	5	-.3847448046+000	-.7973018056-001
6	-.1036418333+000	-.1473869721+000	6	-.9740112474-001	.4813191487-001
7	-.7031687461-001	-.2043865000-001	7	.1433266344+000	.6002225708-001
8	-.2441776512-001	.9235263028-002	8	.3341215956+000	.2739671389+000
9	-.4580432732-002	.6900159895-002	9	.2810266462+000	.1126077983+001
10	.5158207487-004	.2365634746-002	10	-.1436736703+001	.3343560133+001
11	.3563482875-003	.5010553698-003	11	-.1091342789+002	.6537433832+001
12	.1368659413-003	.5228876519-004	12	-.4874347334+002	-.3379490537+001
13	.3149245566-004	-.6907097917-005	13	-.1608357597+003	-.1264843991+003
14	.4632777718-005	-.4687862561-005	14	-.2885386218+003	-.8820055215+003
15	.2603917480-006	-.1230796491-005	15	.1187199884+004	-.4373329151+004
16	-.7910728697-007	-.2108734272-006	16	.1766311489+005	-.1580738946+005
17	-.3028095570-007	-.2290165251-007	17	.1305597123+006	-.2091059398+005
18	-.6024881682-008	-.5174416053-009	18	.7189122384+006	.3113789436+006
19	-.8121940937-009	.4166947546-009	19	.2764607975+007	.4062215389+007
20	-.6721051075-010	.1124053756-009	20	.1158127605+007	.3250012499+008
30	-.4475743520-019	.1217510840-019	30	.4303994392+017	.4340288962+017
31	-.2960758790-020	.3131553911-020	31	.1465888857+018	.6195622275+018
40	-.5089845728-030	-.3159265665-030	40	.3550326202+028	-.9636590276+026
41	-.4217782530-031	-.4558875537-033	41	.4268661310+029	.2448737625+029
50	-.1111515508-042	-.6414000336-042	50	.1697813969+040	-.1990982329+040
51	-.2419045485-043	-.2787229238-043	51	.4293571779+041	-.1428909025+041
60	.6171684998-055	-.7575553189-055	60	-.2133933092+052	-.1437922965+053
61	.6528210113-057	-.4590823792-056	61	.1160018365+054	-.2780985554+054
70	.2815311454-068	-.7117821348-070	70	-.3658963140+066	-.2307609190+066
71	.9692940682-070	-.6173922764-070	71	-.4697872367+067	-.9336700770+067
80	.1314419735-082	.1468820082-082	80	-.5164827824+080	.1613061055+080
81	.6741639933-084	.2080112619-084	81	-.1450679630+082	-.3532777226+081
90	-.5533276479-098	.3956919092-097	90	-.9236269070+094	.2186733643+095
91	.4987677469-099	.1171945722-098	91	-.5951912527+096	.4337824932+096
99	-.9267424030-111	.1835124033-112	99	.7890071066+108	.4932411010+108
100	-.2277778765-112	.1431084094-112	100	.1440177878+110	.2828811016+110

REAL X = .5000000000+001 IMAGINARY X = -.1000000000+002

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.1725112391+003	-.9698300194+003	0	-.9698300165+003	.1725112363+003
1	-.8991440645+003	.1199171364+003	1	.1199171395+003	.8991440676+003
2	.3583393861+002	.7684255003+003	2	.7684254970+003	-.3583383472+002
3	.5989406321+003	.4810149910+002	3	.4810149376+002	-.5989406357+003
4	.1049326989+003	-.4195503266+003	4	-.4195503227+003	-.1049327068+003
5	-.2590886253+003	-.1235880735+003	5	-.1235880611+003	.2590886289+003
6	-.1101741893+003	.1371735840+003	6	.1371735824+003	.1101742097+003
7	.5913751947+002	.8033718029+002	7	.8033714580+002	-.5913751412+002
8	.4925208466+002	-.1800625248+002	8	-.1800627800+002	-.4925214326+002
9	-.1157598523+001	-.2559859683+002	9	-.2559850001+002	.1157518617+001
10	-.1122199236+002	-.3208230863+001	10	-.3208010303+001	.1122213739+002
11	-.2879047208+001	.4050735743+001	11	.4050580551+001	.2879619478+001
12	.1119915160+001	.1637460883+001	12	.1636044572+001	-.1119819252+001
13	.7240406019+000	-.1734445402+000	13	-.1748974760+000	-.7273495862+000
14	.3668889711-001	-.2608532866+000	14	-.2538587394+000	-.4349684944-001
15	-.7630185637-001	-.4402703091-001	15	-.1866597102-001	.8794096542-001
16	-.2211616236-001	.1703116445-001	16	.1261934112-001	.1062520384+000
17	.2146247909-002	.8121499345-002	17	-.2451818802+000	.8562678589-001
18	.2380711267-002	.3484287782-003	18	-.5956289739+000	-.6728838027+000
19	.3458555834-003	-.5589194028-003	19	.1355387055+001	-.2844556576+001
20	-.9734802033-004	-.1412736265-003	20	.1158504930+002	.4641831546+000
30	.1521244069-010	-.2472313318-010	30	.2348954821+008	-.4239687550+008
31	-.2765650705-011	-.4233176231-011	31	.2694929991+009	.1844088388+008
40	.2022844302-018	.6089570789-019	40	-.3610525330+016	-.3612035942+016
41	.1903073911-019	-.2074545434-019	41	.1238146302+017	-.3533547135+017
50	-.1417724794-028	.1377956816-027	50	-.5250509948+025	.3479243436+025
51	.1267372484-028	.7894893985-029	51	-.4941704863+026	-.2906760539+026
60	-.1297720173-037	.6617389849-039	60	.2327053472+035	.5126894183+035
61	-.4644986136-039	.1079664736-038	61	-.3889127334+036	.4732400245+036
70	-.4346071517-049	-.2348320814-048	70	.2525594058+046	-.7552034789+045
71	-.1790077902-049	-.5067596655-050	71	.2272775225+047	.2443757765+047
80	.1030939145-059	-.3203981362-060	80	-.8648644133+056	-.5042341545+057
81	.1165920639-061	-.7291838755-061	81	.5971933071+058	-.4350964001+058
90	.5690479405-072	.1307134022-071	90	-.3444337871+069	.2038021165+068
91	.8679605209-073	.4353600707-074	91	-.2780405672+070	-.4859639346+070
99	-.9374805670-083	-.6363123003-083	99	.3456988952+080	.1914753889+080
100	-.5480144073-084	.3088912906-084	100	-.3149496482+080	.7040381810+081

REAL X = .5000000000+001 IMAGINARY X = -.1000000000+003

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.3160260071+041	-.1304651691+042	0	-.1304651691+042	-.3160260071+041
1	-.1291480090+042	-.3135243271+041	1	-.3135243271+041	.1291480090+042
2	-.3085761221+041	.1265534794+042	2	.1265534794+042	.3085761221+041
3	.1227591631+042	.3012899439+041	3	.3012899439+041	-.1227591631+042
4	.2918242764+041	-.1178765787+042	4	-.1178765787+042	-.2918242764+041
5	-.1120457336+042	-.2803824737+041	5	-.2803824737+041	.1120457336+042
6	-.2672062646+041	.1054284580+042	6	.1054284580+042	.2672062646+041
7	.9820096197+041	.2525680452+041	7	.2525680452+041	-.9820096197+041
8	.2367622401+041	-.9054609354+041	8	-.9054609354+041	-.2367622401+041
9	-.8264576615+041	-.2200960623+041	9	-.2200960623+041	.8264576615+041
10	-.2028800415+041	.7467398698+041	10	.7467398698+041	.2028800415+041
11	.6679084215+041	.1854187156+041	11	.1854187156+041	-.6679084215+041
12	.1680018792+041	-.5913770247+041	12	-.5913770247+041	-.1680018792+041
13	-.5183380678+041	-.1508967634+041	13	-.1508967634+041	.5183380678+041
14	-.1343414680+041	.4497427259+041	14	.4497427259+041	.1343414680+041
15	.3862948340+041	.1185398994+041	15	.1185398994+041	-.3862948340+041
16	.1036583769+041	-.3284571728+041	16	-.3284571728+041	-.1036583769+041
17	-.2764681705+041	-.8982396822+040	17	-.8982396822+040	.2764681705+041
18	-.7712451561+040	.2303666200+041	18	.2303666200+041	.7712451561+040
19	.1900218334+041	.6561021430+040	19	.6561021430+040	-.1900218334+041
20	.5529652775+040	-.1551667056+041	20	-.1551667056+041	-.5529652775+040
30	-.5913438426+039	.1174032281+040	30	.1174032281+040	.5913438426+039
31	.8580002679+039	.4483146858+039	31	.4483146858+039	-.8580002679+039
40	.2386906381+038	-.3241300699+038	40	-.3241300697+038	-.2386906382+038
41	-.2141393004+038	-.1640847309+038	41	-.1640847309+038	.2141393007+038
50	-.3637711515+036	.3242436788+036	50	.3242421529+036	.3637718313+036
51	.1932779606+036	.2270717394+036	51	.2270705773+036	-.1932804186+036
60	.2136296901+034	-.1124095226+034	60	-.8686183912+033	-.2334373730+034
61	-.5987910359+033	-.1213996512+034	61	-.8507230354+033	.1043143574+034
70	-.4968283277+031	.1056093307+031	70	-.8760421885+035	.1177774385+036
71	.4700712755+030	.2577473039+031	71	-.2320109680+036	-.1624399796+036
80	.4697414021+028	.4368207127+027	80	.5029763564+038	-.1419917773+039
81	.2785941357+027	-.2229828866+028	81	.2997858908+039	.9575277816+038
90	-.1836807730+025	-.8168786075[illegible]024	90	-.5906535472+040	.3364680709+042
91	-.3878427535+024	.7984049663+024	91	-.7532669499+042	.1206889256+041
99	-.6570776301+021	.7356221331+021	99	-.6282562838+045	.1879490343+045
100	.2945241870+021	.2824604781+021	100	-.5048906699+045	-.1494135545+046

REAL X = .5000000000+001 IMAGINARY X = .0000000000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.1917848549+000	.0000000000	0	-.5673243709-001	.0000000000
1	-.9508940808-001	.0000000000	1	.1804383675+000	.0000000000
2	.1347312101+000	.0000000000	2	.1649954576+000	.0000000000
3	.2298206182+000	.0000000000	3	-.1544290991-001	.0000000000
4	.1870176553+000	.0000000000	4	-.1866155315+000	.0000000000
5	.1068111615+000	.0000000000	5	-.3204650467+000	.0000000000
6	.4796689986-001	.0000000000	6	-.5184075714+000	.0000000000
7	.1790277818-001	.0000000000	7	-.1027394639+001	.0000000000
8	.5741434675-002	.0000000000	8	-.2563776345+001	.0000000000
9	.1618099715-002	.0000000000	9	-.7689444934+001	.0000000000
10	.4073442442-003	.0000000000	10	-.2665611441+002	.0000000000
11	.9274611037-004	.0000000000	11	-.1042662356+003	.0000000000
12	.1928786347-004	.0000000000	12	-.4529685692+003	.0000000000
13	.3693206998-005	.0000000000	13	-.2160576611+004	.0000000000
14	.6554543131-006	.0000000000	14	-.1121414513+005	.0000000000
15	.1084280182-006	.0000000000	15	-.6288146513+005	.0000000000
16	.1679939976-007	.0000000000	16	-.3786509387+006	.0000000000
17	.2448020198-008	.0000000000	17	-.2436214730+007	.0000000000
18	.3367416303-009	.0000000000	18	-.1667485217+008	.0000000000
19	.4386786630-010	.0000000000	19	-.1209576913+009	.0000000000
20	.5427726761-011	.0000000000	20	-.9267951403+009	.0000000000
30	.4282730217-021	.0000000000	30	-.7760717570+019	.0000000000
31	.3419992523-022	.0000000000	31	-.9401810041+020	.0000000000
40	.1210347583-032	.0000000000	40	-.2055758716+031	.0000000000
41	.7317268114-034	.0000000000	41	-.3317264059+032	.0000000000
50	.2857479350-045	.0000000000	50	-.6964109188+043	.0000000000
51	.1390347013-046	.0000000000	51	-.1403223624+045	.0000000000
60	.9285901110-059	.0000000000	60	-.1786114181+057	.0000000000
61	.3780914088-060	.0000000000	61	-.4314878111+058	.0000000000
70	.5782161370-073	.0000000000	70	-.2459324803+071	.0000000000
71	.2024178147-074	.0000000000	71	-.5926437806+072	.0000000000
80	.8732235016-088	.0000000000	80	-.1425339371+086	.0000000000
81	.2681093536-089	.0000000000	81	-.4585106079+087	.0000000000
90	.3816013506-103	.0000000000	90	-.2900049665+101	.0000000000
91	.1043397689-104	.0000000000	91	-.1049007269+103	.0000000000
99	.2223967141-117	.0000000000	99	-.4524781791+115	.0000000000
100	.5535650303-119	.0000000000	100	-.1799713983+117	.0000000000

REAL X = .5000000000+001 IMAGINARY X = -.1000000000-002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.1917849318+000	-.9508943291-004	0	-.5673250155-001	.1804383866-003
1	-.9508948257-001	.1537491038-003	1	.1804384247+000	.1289078088-003
2	.1347312261+000	.1759281540-003	2	.1649955366+000	-.8144109429-004
3	.2298206681+000	.4912528735-004	3	-.1544297846-001	-.1773497938-003
4	.1870176826+000	-.4280297001-004	4	-.1865155159+000	-.1711726130-003
5	.1068111625+000	-.5884426725-004	5	-.3204649751+000	-.1979424802-003
6	.4796689148-001	-.3965750312-004	6	-.5184073141+000	-.4053054095-003
7	.1790277094-001	-.1932245416-004	7	-.1027393777+001	-.1125423335-002
8	.5741430791-002	-.7568194912-005	8	-.2563773218+001	-.3587400701-002
9	.1618098113-002	-.2505234727-005	9	-.7689432375+001	-.1281510428-001
10	.4073436962-003	-.7219421520-006	10	-.2665605890+002	-.5095396198-001
11	.9274594885-004	-.1847534993-006	11	-.1042659677+003	-.2235826161+000
12	.1928782146-004	-.4259764120-007	12	-.4529671677+003	-.1073450717+001
13	.3693197190-005	-.8946877497-008	13	-.2160568707+004	-.5596637905+001
14	.6554522333-006	-.1726842550-008	14	-.1121409734+005	-.3148180687+002
15	.1084276137-006	-.3084843319-009	15	-.6288115674+005	-.1900061870+003
16	.1679932703-007	-.5130999573-010	16	-.3786488232+006	-.1224529137+004
17	.2448008038-008	-.7986515595-011	17	-.2436199360+007	-.8391702220+004
18	.3367397291-009	-.1168400079-011	18	-.1667473427+008	-.6092806302+005
19	.4386758709-010	-.1612698630-012	19	-.1209567391+009	-.4671545518+006
20	.5427688096-011	-.2107136937-013	20	-.9267870643+009	-.3771569801+007
30	.4282657771-021	-.2535424902-023	30	-.7760567611+019	-.4745346882+017
31	.3419930568-022	-.2093923207-024	31	-.9401616332+020	-.5939507811+018
40	.1210310411-032	-.9609514644-035	40	-.2055688970+031	-.1672637226+029
41	.7317031681-034	-.5956909658-036	41	-.3317145940+032	-.2765909796+030
50	.2857340736-045	-.2843531767-047	50	-.6963743368+043	-.7067998361+041
51	.1390276788-046	-.1411495637-048	51	-.1403146994+045	-.1452360990+043
60	.9285248243-059	-.1110502070-060	60	-.1785979989+057	-.2171484910+055
61	.3780639189-060	-.4597459905-062	61	-.4314543231+058	-.5332445266+056
70	.5781605672-073	-.8074532905-075	70	-.2459074613+071	-.3483261607+069
71	.2023977945-074	-.2867252988-076	71	-.6925713225+072	-.9949120541+070
80	.8731133596-088	-.1394419137-089	80	-.1425150755+086	-.2304458904+084
81	.2680747397-089	-.4335057684-091	81	-.4584484290+087	-.7504972984+085
90	.3815404083-103	-.6858033382-105	90	-.2899565561+101	-.5269683574+099
91	.1043227301-104	-.1896060821-106	91	-.1048828298+103	-.1927161327+101
99	.2223536717-117	-.4397641317-119	99	-.4523870102+115	-.9037452665+113
100	.5534557020-119	-.1105694445-120	100	-.1799344092+117	-.3630643766+115

REAL X = .5000000000+001 IMAGINARY X = -.1000000000-001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.1917925424+000	-.9509189112-003	0	-.5673888254-001	.1804402749-002
1	-.9509685723-001	.1537503017-002	1	.1804440895+000	.1289102555-002
2	.1347328113+000	.1759301259-002	2	.1650033563+000	-.8144122680-003
3	.2298256110+000	.4912557498-003	3	-.1543976445-001	-.1773506173-002
4	.1870203816+000	-.4280368236-003	4	-.1866139743+000	-.1711717610-002
5	.1068112702+000	-.5884482698-003	5	-.3204578834+000	-.1979380821-002
6	.4796606213-001	-.3965764825-003	6	-.5185818400+000	-.4052911825-002
7	.1790205465-001	-.1932239350-003	7	-.1027308434+001	-.1125372256-001
8	.5741046344-002	-.7568110549-004	8	-.2563463614+001	-.3587194676-001
9	.1617939468-002	-.2505183544-004	9	-.7688189061+001	-.1281418914+000
10	.4072894351-003	-.7219197622-005	10	-.2665056408+002	-.5094952960+000
11	.9272995802-004	-.1847455723-005	11	-.1042394526+003	-.2235593635+001
12	.1928366210-004	-.4259525094-006	12	-.4528284326+003	-.1073319342+002
13	.3692226295-005	-.8946245526-007	13	-.2159786322+004	-.5595842501+002
14	.6552463392-006	-.1726693217-007	14	-.1120936671+005	-.3147666919+003
15	.1083875656-006	-.3084523614-008	15	-.6285062925+005	-.1899709219+004
16	.1679212743-007	-.5130372993-009	16	-.3784394196+006	-.1224272804+005
17	.2446804216-008	-.7985382187-010	17	-.2434677946+007	-.8389735300+005
18	.3365515177-009	-.1168209591-010	18	-.1666306347+008	-.6091217487+006
19	.4383994780-010	-.1612399522-011	19	-.1208624836+009	-.4670197911+007
20	.5423860645-011	-.2106696065-012	20	-.9259876827+009	-.3770372345+008
30	.4275487326-021	-.2534108097-022	30	-.7745727082+019	-.4742118475+018
31	.3413798668-022	-.2092755569-023	31	-.9382446557+020	-.5935208385+019
40	.1206632063-032	-.9600276222-034	40	-.2048788425+031	-.1670671839+030
41	.7293636177-034	-.5950876292-035	41	-.3305459774+032	-.2762502917+031
50	.2843628098-045	-.2839166416-046	50	-.6927561398+043	-.7055265865+042
51	.1383329878-046	-.1409237512-047	51	-.1395568130+045	-.1449643175+044
60	.9220685028-059	-.1108013833-059	60	-.1772712738+057	-.2165927227+056
61	.3753454925-060	-.4586801057-061	61	-.4281435735+058	-.5318354716+057
70	.5726674627-073	-.8049682850-074	70	-.2434350216+071	-.3471248768+070
71	.2004188752-074	-.2858168088-075	71	-.6854111684+072	-.9913852058+071
80	.8622567855-088	-.1388777564-088	80	-.1406520965+086	-.2294159732+085
81	.2646549743-089	-.4317067802-090	81	-.4523073052+087	-.7470611524+086
90	.3755224548-103	-.6822747882-104	90	-.2851778360+101	-.5240064463+100
91	.1026402736-104	-.1886083248-105	91	-.1031162749+103	-.1916093648+102
99	.2181056462-117	-.4370172020-118	99	-.4433927806+115	-.8976281240+114
100	.5426663579-119	-.1098645353-119	100	-.1762855147+117	-.3605582390+116

REAL X = .5000000000+001 IMAGINARY X = -.1000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.1925539029+000	-.9533781903-002	0	-.5737759402-001	.1806291374-001
1	-.9583485657-001	.1538701211-001	1	.1810107497+000	.1291550159-001
2	.1348914098+000	.1761273931-001	2	.1657856946+000	-.8145450777-002
3	.2303202175+000	.4915434416-002	3	-.1512849902-001	-.1774330735-001
4	.1872903898+000	-.4287495133-002	4	-.1864605107+000	-.1710867584-001
5	.1068219770+000	-.5890081765-002	5	-.3197505563+000	-.1974989026-001
6	.4788305390-001	-.3967215877-002	6	-.5158407974+000	-.4038710890-001
7	.1783039740-001	-.1931632027-002	7	-.1018799967+001	-.1120276033+000
8	.5702601951-002	-.7559670859-003	8	-.2532618064+001	-.3566648784+000
9	.1602092008-002	-.2500064773-003	9	-.7564414954+001	-.1272297282+001
10	.4018683838-003	-.7196812120-004	10	-.2610400952+002	-.5050797343+001
11	.9113323976-004	-.1839532678-004	11	-.1016044905+003	-.2212442967+002
12	.1886859439-004	-.4235642428-005	12	-.4390551355+003	-.1060247620+003
13	.3595404996-005	-.8883124633-006	13	-.2082195191+004	-.5516753741+003
14	.6347290032-006	-.1711784057-006	14	-.1074074603+005	-.3096618282+004
15	.1043999950-006	-.3052619002-007	15	-.5983015915+005	-.1864695775+005
16	.1607589144-007	-.5067874548-008	16	-.3577466230+006	-.1198842671+006
17	.2327157085-008	-.7872389517-009	17	-.2284535083+007	-.8194765101+006
18	.3178641055-009	-.1149230026-009	18	-.1551292398+008	-.5933864716+007
19	.4109859788-010	-.1582615413-010	19	-.1115873416+009	-.4536855992+008
20	.5044674500-011	-.2062823973-011	20	-.8474456620+009	-.3652000744+009
30	.3575752053-021	-.2404196310-021	30	-.6315102468+019	-.4426717531+019
31	.2816535690-022	-.1977684977-022	31	-.7538686878+020	-.5515760292+020
40	.8554495685-033	-.8700295443-033	40	-.1400549663+031	-.1481668603+031
41	.5065726917-034	-.5363995689-034	41	-.2210905560+032	-.2435466095+032
50	.1371613987-045	-.2420939195-045	50	-.3638105879+043	-.5854827597+043
51	.7410203948-047	-.1193303908-046	51	-.7090576641+044	-.1193966689+045
60	.3442607248-059	-.8745153609-059	60	-.6135617466+056	-.1654266912+057
61	.1330256449-060	-.3588858367-060	61	-.1401468833+058	-.4024498379+058
70	.1017965987-073	-.5774835067-073	70	-.3733168768+070	-.2395655836+071
71	.3158317186-075	-.2028754953-074	71	-.9157540317+071	-.6765493059+072
80	-.2299710760-089	-.8870336416-088	80	.6426316775+084	-.1400922042+086
81	-.1251803312-090	-.2722078127-089	81	.2969140544+086	-.4500614532+087
90	-.8715169865-104	-.3786412055-103	90	.6939415730+100	-.2761830593+101
91	-.2590319971-105	-.1030529996-104	91	.2709155397+102	-.9935848375+102
99	-.8968504821-118	-.2083674007-117	99	.1834324044+115	-.4037979583+115
100	-.2336194560-119	-.5141742899-119	100	.7614531975+116	-.1590843039+117

REAL X = .5000000000+001 IMAGINARY X = -.5000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.2111933480+000	-.5068234144-001	0	-.7323444346-001	.9261474322-001
1	-.1140512977+000	.7839658951-001	1	.1948575227+000	.6757170755-001
2	.1387828787+000	.9047924822-001	2	.1849772268+000	-.4089744036-001
3	.2425017471+000	.2492770365-001	3	-.7662502083-002	-.8974964585-001
4	.1939028316+000	-.2231189208-001	4	-.1831579718+000	-.8457013834-001
5	.1070440326+000	-.3013453143-001	5	-.3036857399+000	-.9361142735-001
6	.4582634518-001	-.2001115938-001	6	-.4579451111+000	-.1854853101+000
7	.1607616438-001	-.9582463276-002	7	-.8274341693+000	-.5017623699+000
8	.4770914349-002	-.3676504492-002	8	-.1850741816+001	-.1550670492+001
9	.1221974543-002	-.1187838103-002	9	-.4880777918+001	-.5341338513+001
10	.2735230202-003	-.3328365617-003	10	-.1450296853+002	-.2038178689+002
11	.5385520024-004	-.8249248195-004	11	-.4695300164+002	-.8544554439+002
12	.9328923161-005	-.1834366099-004	12	-.1604265930+003	-.3901606734+003
13	.1408607983-005	-.3699442183-005	13	-.5540892044+003	-.1925462040+004
14	.1801678155-006	-.6924176982-006	14	-.1772575585+004	-.1020063458+005
15	.1790250724-007	-.1159294178-006	15	-.3767267568+004	-.5767035419+005
16	.8933566891-009	-.1823857522-007	16	.1404837824+005	-.3461279811+006
17	-.1464539801-009	-.2669573262-008	17	.3217511922+006	-.2194975929+007
18	-.5818498375-010	-.3649204429-009	18	.3737180826+007	-.1464358060+008
19	-.1248438821-010	-.4673185278-010	19	.3778853371+008	-.1023564920+009
20	-.2139157711-011	-.5620422940-011	20	.3671426476+009	-.7466490744+009
30	-.4891140882-021	-.9480619255-022	30	.6607469308+019	-.6266307893+018
31	-.3981745394-022	-.3615234862-023	31	.8001129594+020	.5228611964+018
40	-.1014549600-032	.1076307234-032	40	.1023220608+031	.1324548276+031
41	-.5477561914-034	.7123933805-034	41	.1421402165+032	.2280882288+032
50	.8960468154-046	.3557905285-045	50	-.1827104880+043	.5077860142+043
51	.6098701718-047	.1687227255-046	51	-.4663115281+044	.9763658440+044
60	.1187919690-058	.3981835046-059	60	-.1284153115+057	.2931588970+056
61	.4999235230-060	.1135938416-060	61	-.3141842563+058	.3929557684+057
70	.6394677216-073	-.5130188076-073	70	-.1232679397+071	-.1207983459+071
71	.2058495451-074	-.2020273865-074	71	-.3099583967+072	-.3713053698+072
80	-.1352774753-088	.1294059131-087	80	.1923079908+085	-.9322024058+085
81	-.8133936126-090	-.3931479939-089	81	.9099866213+086	-.2907666991+087
90	-.5332174212-103	-.2696971191-103	90	.1718822387+101	-.6645094634+100
91	-.1531774156-104	-.5913956303-105	91	.6394083637+102	-.1763315165+102
99	-.3310242356-117	.1518039651-117	99	.2373132415+115	.1388510782+115
100	-.7861018148-119	.4603419752-119	100	.8798015675+116	.6403789615+116

REAL X = .5000000000+001 IMAGINARY X = -.1000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.2717356636+000	-.1210191605+000	0	-.1275191184+000	.1998819668+000
1	-.1751213937+000	.1661576796+000	1	.2395249883+000	.1545534188+000
2	.1515320504+000	.1966730456+000	2	.2478735248+000	-.8307903420-001
3	.2830035487+000	.5209179703-001	3	.1479167682-001	-.1867691200+000
4	.2154095506+000	-.5035620958-001	4	-.1776776584+000	-.1643585605+000
5	.1072516692+000	-.6468193070-001	5	-.2654173530+000	-.1592014241+000
6	.3883441250-001	-.4109524533-001	6	-.3164276783+000	-.2847056399+000
7	.1038198475-001	-.1863897638-001	7	-.3832990227+000	-.7107765148+000
8	.1866876052-002	-.6691426101-002	8	-.3791792054+000	-.1986745281+001
9	.8988863580-004	-.1983497685-002	9	.4427004580+000	-.6032277154+001
10	-.8895772853-004	-.5002814367-003	10	.6404941107+001	-.1973075553+002
11	-.4506753292-004	-.1087201286-003	11	.4135978732+002	-.6847639850+002
12	-.1420393790-004	-.2046348836-004	12	.2371078553+003	-.2465581183+003
13	-.3544198962-005	-.3319659508-005	13	.1335(56939+004	-.8889108477+003
14	-.7512949096-006	-.4537195526-006	14	.7621133668+004	-.2981912155+004
15	-.1396431485-006	-.4868231845-007	15	.4449279823+005	-.7240488616+004
16	-.2314878803-007	-.2999561339-008	16	.2662572845+006	.1286656637+005
17	-.3455486191-008	.2654866786-009	17	.1628886250+007	.4268356363+006
18	-.4666780178-009	.1348748796-009	18	.1012281373+008	.5052797091+007
19	-.5704472515-010	.3008124714-010	19	.6320830791+008	.4993130167+008
20	-.6279291533-011	.5167386200-011	20	.3890425431+009	.4642444273+009
30	.7031122326-021	.3320031207-021	30	-.4059617025+019	.1033486446+019
31	.6147172533-022	.1512620635-022	31	-.4971875025+020	.2440583937+019
40	.4964311021-034	-.2667754637-032	40	.1597809680+030	-.9000531094+030
41	-.2948250412-034	-.1618161119-033	41	.5294291468+031	-.1346305879+032
50	-.7061467356-045	.2955190402-045	50	.2115246732+043	.1421684941+043
51	-.3146002962-046	.2127789449-046	51	.3544035246+044	.3577998075+044
60	.2184993388-058	.2090711245-058	60	-.4534815249+056	.2889626687+056
61	.1060281155-059	.6726004003-060	61	-.1188031127+058	.4597514111+057
70	.7947728844-073	-.2147352377-072	70	-.9586984075+069	-.6013309872+070
71	.1274855437-074	-.8073980591-074	71	.6693121447+070	-.1680426728+072
80	-.4199378365-087	.2226883230-088	80	.2812076048+085	.7168436030+084
81	-.1275508357-088	.3267067088-089	81	.8253425460+086	.3960299739+086
90	.9912704288-103	.2003275016-102	90	-.2962288506+100	.3846304467+100
91	.3807234924-104	.4934124877-104	91	-.1298253584+102	.1131347958+102
99	.1220008507-116	-.9620260310-117	99	-.4121279316+114	-.4831905809+114
100	.2556995145-118	-.3002463246-118	100	-.1206062898+116	-.2163552094+116

REAL X = .5000000000+001 IMAGINARY X = -.3000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.1168986779+001	-.1269730527+001	0	-.1267594864+001	.1160719771+001
1	-.1327469638+001	.8708488017+000	1	.8801593195+000	.1328578005+001
2	.3528196093+000	.1302539506+001	2	.1304218033+001	-.3415990670+000
3	.1012246039+001	.2425565448+000	3	.2295299988+000	-.1004363481+001
4	.5393840356+000	-.4276381560+000	4	-.4475950016+000	-.5505359879+000
5	.4123960250-001	-.3802138407+000	5	-.3847448046+000	-.7973018056-001
6	-.1036418333+000	-.1473869721+000	6	-.9740112474-001	.4813191487-001
7	-.7031687461-001	-.2043865000-001	7	.1433266344+000	.6002225708-001
8	-.2441776512-001	.9235263028-002	8	.3341215956+000	.2739671389+000
9	-.4580432732-002	.6900159895-002	9	.2810266462+000	.1126077983+001
10	.5158207487-004	.2365634746-002	10	-.1436736703+001	.3343560133+001
11	.3563482875-003	.5010556698-003	11	-.1091342789+002	.6537433832+001
12	.1368659413-003	.5228876519-004	12	-.4874347334+002	-.3379490537+001
13	.3149245566-004	-.6907097917-005	13	-.1608357597+003	-.1264843991+003
14	.4632777718-005	-.4687862561-005	14	-.2885386218+003	-.8820055215+003
15	.2603917480-006	-.1230796491-005	15	.1187199884+004	-.4373329151+004
16	-.7910728697-007	-.2108734272-006	16	.1766311489+005	-.1580788946+005
17	-.3028095570-007	-.2290165251-007	17	.1305597123+006	-.2091059398+005
18	-.6024881682-008	-.5174416053-009	18	.7189122384+006	.3113789436+006
19	-.8121940937-009	.4166947546-009	19	.2764607975+007	.4062215389+007
20	-.6721051075-010	.1124053756-009	20	.1158127605+007	.3250012499+008
30	-.4475743520-019	.1217510840-019	30	.4303994392+017	.4340288962+017
31	-.2960758790-020	.3131553911-020	31	.1465888857+018	.6195622275+018
40	-.5089845728-030	-.3159265665-030	40	.3550326202+028	-.8636590276+026
41	-.4217782530-031	-.4555875537-033	41	.4268661310+029	.2448737625+029
50	-.1111515508-042	-.6414000336-042	50	.1697813969+040	-.1990982329+040
51	-.2419045485-043	-.2787229238-043	51	.4293571779+041	-.1428909025+041
60	.6171684998-055	-.7575553189-055	60	-.2133933092+052	-.1437922965+053
61	.6528210113-057	-.4590823792-056	61	.1160018365+054	-.2780985554+054
70	.2915311454-068	-.7117821348-070	70	-.3658963140+066	-.2307609190+066
71	.9692940682-070	-.6173922764-070	71	-.4697872367+067	-.9336700770+067
80	.1314419735-082	.1468820082-082	80	-.5164827824+080	.1613061055+080
81	.6741639933-084	.2080112619-084	81	-.1450679630+082	-.3532777226+081
90	-.5533276479-098	.3956919092-097	90	-.9236269070+094	.2186733643+095
91	.4987677469-099	.1171945722-098	91	-.5951912527+096	.4337824932+096
99	-.9267424030-111	.1835124033-112	99	.7890071066+108	.4932411010+108
100	-.2277778765-112	.1431084094-112	100	.1440177878+110	.2828811016+110

REAL X = .5000000000+001 IMAGINARY X = -.1000000000+002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.1725112391+003	-.9698300194+003	0	-.9698300165+003	.1725112363+003
1	-.8991440645+003	.1199171364+003	1	.1199171395+003	.8991440676+003
2	.3583383861+002	.7684255003+003	2	.7684254970+003	-.3583383472+002
3	.5989406321+003	.4810149910+002	3	.4810149376+002	-.5989406357+003
4	.1049326989+003	-.4195503266+003	4	-.4195503227+003	-.1049327068+003
5	-.2590886253+003	-.1235880735+003	5	-.1235880611+003	.2590886289+003
6	-.1101741893+003	.1371735840+003	6	.1371735824+003	.1101742097+003
7	.5913751947+002	.8033718029+002	7	.8033714580+002	-.5913751412+002
8	.4925208466+002	-.1800625248+002	8	-.1800627800+002	-.4925214326+002
9	-.1157598523+001	-.2559859683+002	9	-.2559850001+002	.1157518617+001
10	-.1122199236+002	-.3208230863+001	10	-.3208010303+001	.1122213739+002
11	-.2879047208+001	.4050735743+001	11	.4050580551+001	.2879619478+001
12	.1119915160+001	.1637460883+001	12	.1636044572+001	-.1119819252+001
13	.7240406019+000	-.1734445402+000	13	-.1748974760+000	-.7273495862+000
14	.3668889711-001	-.2608532866+000	14	-.2538587394+000	-.4349684944-001
15	-.7630185637-001	-.4402703091-001	15	-.1866597102-001	.8794096542-001
16	-.2211616236-001	.1703116445-001	16	.1261934112-001	.1062520384+000
17	.2146247909-002	.8121499345-002	17	-.2451818802+000	.8562678589-001
18	.2380711267-002	.3484287782-003	18	-.5956289739+000	-.6728838027+000
19	.3458555834-003	-.5589194028-003	19	.1355387055+001	-.2844556576+001
20	-.9734802033-004	-.1412736265-003	20	.1158504930+002	.4641831546+000
30	.1521244069-010	-.2472313318-010	30	.2348954821+008	-.4239687550+008
31	-.2765650705-011	-.4233176231-011	31	.2694929991+009	.1844088388+008
40	.2022844302-018	.6089570789-019	40	-.3610525330+016	-.3612035942+016
41	.1903073911-019	-.2074545434-019	41	.1238146302+017	-.3533547135+017
50	-.1417724794-028	.1377956816-027	50	-.5250509948+025	.3479243436+025
51	.1267372484-028	.7894893985-029	51	-.4941704863+026	-.2906760539+026
60	-.1297720173-037	.6617389849-039	60	.2327053472+035	.5126894183+035
61	-.4644986136-039	.1079664736-038	61	-.3889127334+036	.4732400245+036
70	-.4346071517-049	-.2348320814-048	70	.2525594058+046	-.7552034789+045
71	-.1790077902-049	-.5067596655-050	71	.2272775225+047	.2443757765+047
80	.1030939145-059	-.3204981362-060	80	-.8648644133+056	-.5042741545+057
81	.1165920639-061	-.7291838755-061	81	.5971933071+058	-.4350964001+058
90	.5690479405-072	.1307134022-071	90	-.3444337871+069	.2038021165+068
91	.8679605209-073	.4353600707-074	91	-.2780405672+070	-.4859639346+070
99	-.9374805670-083	-.6363123003-083	99	.3456988952+080	.1914753889+080
100	-.5480144073-084	.3088912906-084	100	-.3149496482+080	.7040381810+081

REAL X = .5000000000+001 IMAGINARY X = -.1000000000+003

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.3160260071+041	-.1304651691+042	0	-.1304651691+042	-.3160260071+041
1	-.1291480090+042	-.3135243271+041	1	-.3135243271+041	.1291480090+042
2	-.3085761221+041	.1265534794+042	2	.1265534794+042	.3085761221+041
3	.1227591631+042	.3012899439+041	3	.3012899439+041	-.1227591631+042
4	.2918242764+041	-.1178765787+042	4	-.1178765787+042	-.2918242764+041
5	-.1120457336+042	-.2803824737+041	5	-.2803824737+041	.1120457336+042
6	-.2672062646+041	.1054284580+042	6	.1054284580+042	.2672062646+041
7	.9820096197+041	.2525680452+041	7	.2525680452+041	-.9820096197+041
8	.2367622401+041	-.9054609354+041	8	-.9054609354+041	-.2367622401+041
9	-.8264576615+041	-.2200960623+041	9	-.2200960623+041	.8264576615+041
10	-.2028800415+041	.7467398698+041	10	.7467398698+041	.2028800415+041
11	.6679084215+041	.1854187156+041	11	.1854187156+041	-.6679084215+041
12	.1680018792+041	-.5913770247+041	12	-.5913770247+041	-.1680018792+041
13	-.5183380678+041	-.1508967634+041	13	-.1508967634+041	.5183380678+041
14	-.1343414680+041	.4497427259+041	14	.4497427259+041	.1343414680+041
15	.3862948340+041	.1185398994+041	15	.1185398994+041	-.3862948340+041
16	.1036583769+041	-.3284571728+041	16	-.3284571728+041	-.1036583769+041
17	-.2764681705+041	-.8982396822+040	17	-.8982396822+040	.2764681705+041
18	-.771[illegible]51561+040	.2303666200+041	18	.2303666200+041	.771245156[illegible]+040
19	.1900218334+041	.6561021430+040	19	.6561021430+040	-.1900218334+041
20	.5529652775+040	-.1551667056+041	20	-.1551667056+041	-.5529652775+040
30	-.5913438426+039	.1174032281+040	30	.1174032281+040	.5913438426+039
31	.8580002679+039	.4483146858+039	31	.4483146858+039	-.8580002679+039
40	.2386906381+038	-.3241300699+038	40	-.3241300697+038	-.2386906382+038
41	-.2141393004+038	-.1640847309+038	41	-.1640847309+038	.2141393007+038
50	-.3637711515+036	.3242436788+036	50	.3242421529+036	.3637718313+036
51	.1932779606+036	.2270717394+036	51	.2270705773+036	-.1932804186+036
60	.2136296901+034	-.1124095226+034	60	-.8686183912+033	-.2334373730+034
61	-.5987910359+033	-.1213996512+034	61	-.8507230354+033	.1043143574+034
70	-.4968283277+031	.1056093307+031	70	-.8760421885+035	.1177774385+036
71	.4700712755+030	.2577473039+031	71	-.2320109680+036	-.1624399796+036
80	.4697414021+028	.4368207127+027	80	.5029763564+038	-.1419917773+039
81	.2785941357+027	-.2229828866+028	81	.2997858908+039	.9575277816+038
90	-.1836807730+025	-.8168786075+024	90	-.5906535472+040	.3364680709+042
91	-.3878427535+024	.7984049663+024	91	-.7582669499+042	.1206889256+041
99	-.6570776301+021	.7356221331+021	99	-.6282562838+045	.1879490343+045
100	.2945241870+021	.2824604781+021	100	-.5048906699+045	-.1494135545+046

REAL X = .1000000000+002 IMAGINARY X = .0000000000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.5440211109-001	.0000000000	0	.8390715291-001	.0000000000
1	.7846694180-001	.0000000000	1	.6279282638-001	.0000000000
2	.7794219363-001	.0000000000	2	-.6506930499-001	.0000000000
3	-.3949584498-001	.0000000000	3	-.9532747888-001	.0000000000
4	-.1055892851+000	.0000000000	4	-.1659930220-002	.0000000000
5	-.5553451162-001	.0000000000	5	.9383354168-001	.0000000000
6	.4450132233-001	.0000000000	6	.1048768261+000	.0000000000
7	.1133862307+000	.0000000000	7	.4250633221-001	.0000000000
8	.1255780236+000	.0000000000	8	-.4111732775-001	.0000000000
9	.1000964095+000	.0000000000	9	-.1124057894+000	.0000000000
10	.6460515449-001	.0000000000	10	-.1724536721+000	.0000000000
11	.3557441489-001	.0000000000	11	-.2497469220+000	.0000000000
12	.1721599974-001	.0000000000	12	-.4019642485+000	.0000000000
13	.7465584477-002	.0000000000	13	-.7551636993+000	.0000000000
14	.2941078342-002	.0000000000	14	-.1636977739+001	.0000000000
15	.1063542715-002	.0000000000	15	-.3992071745+001	.0000000000
16	.3559040735-003	.0000000000	16	-.1073844467+002	.0000000000
17	.1109407280-003	.0000000000	17	-.3144479567+002	.0000000000
18	.3238847439-004	.0000000000	18	-.9931834017+002	.0000000000
19	.8896627269-005	.0000000000	19	-.3360330630+003	.0000000000
20	.2308371961-005	.0000000000	20	-.1211210605+004	.0000000000
30	.2512057385-012	.0000000000	30	-.6908318646+010	.0000000000
31	.4089663774-013	.0000000000	31	-.4093269153+011	.0000000000
40	.8435671634-021	.0000000000	40	-.1510304919+019	.0000000000
41	.1031165119-021	.0000000000	41	-.1203903828+020	.0000000000
50	.2230696023-030	.0000000000	50	-.4528227272+028	.0000000000
51	.2186121214-031	.0000000000	51	-.4527283158+029	.0000000000
60	.7882678576-041	.0000000000	60	-.1063059842+039	.0000000000
61	.6450906511-042	.0000000000	61	-.1277304015+040	.0000000000
70	.5247541705-052	.0000000000	70	-.1365335609+050	.0000000000
71	.3687477631-053	.0000000000	71	-.1915248513+051	.0000000000
80	.8382570331-064	.0000000000	80	-.7467487328+061	.0000000000
81	.5161944294-065	.0000000000	81	-.1197549959+063	.0000000000
90	.3847244364-076	.0000000000	90	-.1444906012+074	.0000000000
91	.2108565657-077	.0000000000	91	-.2507192139+075	.0000000000
99	.1169360214-087	.0000000000	99	-.4319200281+085	.0000000000
100	.5832040182-089	.0000000000	100	-.8573226309+086	.0000000000

REAL X = .1000000000+002 IMAGINARY X = -.1000000000-002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.5440214614-001	.7846695228-004	0	.8390718858-001	.6279283901-004
1	.7846697324-001	.7009551271-004	1	.6279286428-001	-.7134859656-004
2	.7794223577-001	-.5508428950-004	2	-.6506932734-001	-.8231363186-004
3	-.3949585299-001	-.9374054543-004	3	-.9532752351-001	.2693831471-004
4	-.1055893260+000	-.1329880133-004	4	-.1659940334-002	.9449752539-004
5	-.5553453829-001	.7226858511-004	5	.9383356872-001	.5796006266-004
6	.4450132657-001	.8668544501-004	6	.1048768585+000	-.2041976464-004
7	.1133862510+000	.4620766466-004	7	.4250634865-001	-.7087176496-004
8	.1255780413+000	-.3660112264-006	8	-.4111732556-001	-.7951192950-004
9	.1000964171+000	-.2548161694-004	9	-.1124057879+000	-.7128845911-004
10	.6460515417-001	-.2903074142-004	10	-.1724536557+000	-.7729324095-004
11	.3557441139-001	-.2191585719-004	11	-.2497468693+000	-.1272426126-003
12	.1721599624-001	-.1319361507-004	12	-.4019641087+000	-.2728065445-003
13	.7465582092-002	-.6764181143-005	13	-.7551633241+000	-.6552647679-003
14	.2941077030-002	-.3053966687-005	14	-.1636976669+001	-.1700302407-002
15	.1063542094-002	-.1239409832-005	15	-.3992068476+001	-.4750335391-002
16	.3559038133-003	-.4585057063-006	16	-.1073843401+002	-.1426327837-001
17	.1109406293-003	-.1562107269-006	17	-.3144475869+002	-.4586216596-001
18	.3238844014-004	-.4940261252-007	18	-.9931820427+002	-.1572599663+000
19	.8896616274-005	-.1459521485-007	19	-.3360325352+003	-.5727474388+000
20	.2308368673-005	-.4049044520-008	20	-.1211208447+004	-.2207507710+001
30	.2512047673-012	-.7127197321-015	30	-.6908287956+010	-.2020770338+008
31	.4089646737-013	-.1203363433-015	31	-.4093249656+011	-.1240760828+009
40	.8435609951-021	-.3271144607-023	40	-.1510292690+019	-.5997801553+016
41	.1031157167-021	-.4104768146-024	41	-.1203893574+020	-.4905350935+017
50	.2230669791-030	-.1093482695-032	50	-.4528169539+028	-.2263159503+026
51	.2186094413-031	-.1093908707-033	51	-.4527223081+029	-.2308894341+027
60	.7882542930-041	-.4665072252-043	60	-.1063040280+039	-.6394640537+036
61	.6450791633-042	-.3883094276-044	61	-.1277279719+040	-.7812927709+037
70	.5247417564-052	-.3636376586-054	70	-.1365301404+050	-.9595053406+047
71	.3687387816-053	-.2592537373-055	71	-.1915199151+051	-.1365313508+049
80	.8382309583-064	-.6654369590-066	80	-.7467243115+061	-.6001442647+059
81	.5161779597-065	-.4149732991-067	81	-.1197509813+063	-.9745123172+060
90	.3847092186-076	-.3441389923-078	90	-.1444846259+074	-.1306748312+072
91	.2108480355-077	-.1907338815-079	91	-.2607071923+075	-.2384124168+073
99	.1169304067-087	-.1151816515-089	99	-.4318984345+085	-.4297144964+083
100	.5831754385-089	-.5803148683-091	100	-.8572789036+086	-.8615617144+084

REAL X = .1000000000+002 IMAGINARY Y = -.1000000000-001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.5440561590-001	.7846798978-003	0	.8391072036-001	.6279408983-003
1	.7847008574-001	.7009682535-003	1	.6279661675-001	-.7124948071-003
2	.7794640779-001	-.5508486298-003	2	-.6507154013-001	-.8231501602-003
3	-.3949664540-001	-.9374191280-003	3	-.9533194270-001	.2693844010-003
4	-.1055933757+000	-.1329917277-003	4	-.1660941601-002	.9449867592-003
5	-.5553717803-001	.7226927497-003	5	.9383624627-001	.5796079856-003
6	.4450174602-001	.8668621227-003	6	.1048800717+000	-.2041988447-003
7	.1133882631+000	.4620790948-003	7	.4250797607-001	-.7087222616-003
8	.1255797854+000	-.3661948954-005	8	-.4111710829-001	-.7951215843-003
9	.1000971648+000	-.2548189801-003	9	-.1124056385+000	-.7128820941-003
10	.6460512177-001	-.2903092061-003	10	-.1724520369+000	-.7729235398-003
11	.3557406485-001	-.2191591230-003	11	-.2497416537+000	-.1272404632-002
12	.1721564963-001	-.1319360054-003	12	-.4019502656+000	-.2728009416-002
13	.7465346029-002	-.6764147967-004	13	-.7551261855+000	-.6552486746-002
14	.2940947122-002	-.3053939292-004	14	-.1636870705+001	-.1700252577-001
15	.1063480661-002	-.1239393311-004	15	-.3991744804+001	-.4750170898-001
16	.3558780510-003	-.4584974547-005	16	-.1073737856+002	-.1426270213+000
17	.1109308633-003	-.1562071371-005	17	-.3144109833+002	-.4586003045+000
18	.3238504945-004	-.4940121516-006	18	-.9930475047+002	-.1572516173+001
19	.8895527709-005	-.1459471987-006	19	-.3359802927+003	-.5727130928+001
20	.2308043118-005	-.4048883094-007	20	-.1210994745+004	-.2207359394+002
30	.2511086206-012	-.7126360119-014	30	-.6905249879+010	-.2020451487+009
31	.4087960221-013	-.1203210562-014	31	-.4091319657+011	-.1240551548+010
40	.8429503952-021	-.3270398739-022	40	-.1509082189+019	-.5996113238+017
41	.1030369983-021	-.4103779376-023	41	-.1202878570+020	-.4903900547+018
50	.2228073240-030	-.1093076419-031	50	-.4522455207+028	-.2262167805+027
51	.2183441617-031	-.1093484588-032	51	-.4521276892+029	-.2307842232+028
60	.7869117540-041	-.4662515566-042	60	-.1061104290+039	-.6390625510+037
61	.6439421882-042	-.3880890572-043	61	-.1274875191+040	-.7807859813+038
70	.5235132189-052	-.3633621953-053	70	-.1361916577+050	-.9586892631+048
71	.3678499503-053	-.2590514463-054	71	-.1910314609+051	-.1364119410+050
80	.8356508204-064	-.6647715548-065	80	-.7443079877+061	-.5994804373+060
81	.5145482868-065	-.4145475341-066	81	-.1193537676+063	-.9734077229+061
90	.3832035983-076	-.3437001043-077	90	-.1438934993+074	-.1304925868+073
91	.2100040860-077	-.1904850366-078	91	-.2596168527+075	-.2380726066+074
99	.1163749841-087	-.1150029692-088	99	-.4297625199+085	-.4289915193+084
100	.5803482698-089	-.5793958704-090	100	-.8529537260+086	-.8600832020+085

REAL X = .1000000000+002 IMAGINARY X = -.1000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.5475292017-001	.7857177608-002	0	.8426411916-001	.6291923854-002
1	.7878151823-001	.7022815605-002	1	.6317219824-001	-.7143792442-002
2	.7036394609-001	-.5514222668-002	2	-.6529292543-001	-.8245349649-002
3	-.3957589463-001	-.9387870703-002	3	-.9577417401-001	.2695097860-002
4	-.1059985938+000	-.1333633301-002	4	-.1761156648-002	.9461377330-002
5	-.5580129934-001	.7233828792-002	5	.9410414763-001	.5803441473-002
6	.4454373786-001	.8676296413-002	6	.1052015371+000	-.2043187905-002
7	.1135895879+000	.4623239431-002	7	.4267073462-001	-.7091836927-002
8	.1257542656+000	-.3845723297-004	8	-.4109546828-001	-.7953506797-002
9	.1001719412+000	-.2551001436-002	9	-.1123908491+000	-.7126325773-002
10	.6460185614-001	-.2904884278-002	10	-.1722904062+000	-.7720370915-002
11	.3553938812-001	-.2192142255-002	11	-.2492207149+000	-.1270256879-001
12	.1718097752-001	-.1319214572-002	12	-.4005677933+000	-.2722411929-001
13	.7441737942-002	-.6760829134-003	13	-.7514181014+000	-.6536411761-001
14	.2927958265-002	-.3051199367-003	14	-.1626293563+001	-.1695276118+000
15	.1057339598-002	-.1237741277-003	15	-.3959445845+001	-.4733745961+000
16	.3533033601-003	-.4576724286-004	16	-.1063208810+002	-.1420517453+001
17	.1099550798-003	-.1558482697-004	17	-.3107606427+002	-.4564688099+001
18	.3204635323-004	-.4926154398-005	18	-.9796351321+002	-.1564184691+002
19	.8786820672-005	-.1454525299-005	19	-.3307740013+003	-.5692864612+002
20	.2275541684-005	-.4032753191-006	20	-.1189706108+004	-.2192565692+003
30	.2415461235-012	-.7042888498-013	30	-.6604029117+010	-.1988740726+010
31	.3920302277-013	-.1187972948-013	31	-.3900071340+011	-.1219745236+011
40	.7025510580-021	-.3196268188-021	40	-.1389830603+019	-.5828865271+018
41	.9525528390-022	-.4005543729-022	41	-.1102959562+020	-.4760286600+019
50	.1973048556-030	-.1052864978-030	50	-.3964054747+028	-.2164412535+028
51	.1923102146-031	-.1051526872-031	51	-.3940743975+029	-.2204189083+029
60	.6562076584-041	-.4410768393-041	60	-.8737641756+038	-.5997196530+038
61	.5333586631-042	-.3664024068-042	61	-.1042445484+040	-.7311583726+039
70	.4051573828-052	-.3364050324-052	70	-.1038119114+050	-.8792763310+049
71	.2823189251-053	-.2392683132-053	71	-.1443632649+051	-.1248008264+051
80	.5901008955-064	-.6001194842-064	80	-.5161904798+061	-.5353946980+061
81	.3596574343-065	-.3732112460-065	81	-.8190709098+062	-.8668611121+062
90	.2418983223-076	-.3014040304-076	90	-.8891388234+073	-.1130556245+074
91	.1309157445-077	-.1665245394-077	91	-.1583672536+075	-.2055908131+075
99	.6497402909-088	-.9792415035-088	99	-.2340470492+085	-.3604320744+085
100	.3191417748-089	-.4916407855-089	100	-.4573255716+086	-.7200227630+086

REAL X = .1000000000+002 IMAGINARY X = -.5000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.6337298175-001	.4055497439-001	0	.9296603496-001	.3299698645-001
1	.8644227133-001	.3672629570-001	1	.7248182819-001	-.3679983342-001
2	.8869147248-001	-.2827116114-001	2	-.7072509136-001	-.4292488929-001
3	-.4150210647-001	-.4861486803-001	3	-.1066857419+000	.1362719309-001
4	-.1159732223+000	-.7123333968-002	4	-.4244455828-002	.4871544710-001
5	-.6229375388-001	.3701407444-001	5	.1006885295+000	.2991684868-001
6	.4559027626-001	.4431966855-001	6	.1130843120+000	-.1036492074-001
7	.1185397196+000	.2341379297-001	7	.4662650831-001	-.3602549375-001
8	.1300242325+000	-.4182536688-003	8	-.4062378879-001	-.4005029373-001
9	.1019857135+000	-.1309855255-001	9	-.1121189432+000	-.3533462733-001
10	.6450665850-001	-.1474245162-001	10	-.1685225479+000	-.3754281503-001
11	.3468455108-001	-.1102708263-001	11	-.2369637051+000	-.6095941664-001
12	.1633382228-001	-.6577814380-002	12	-.3681419797+000	-.1294970696+000
13	.6868349174-002	-.3339808313-002	13	-.6649493277+000	-.3078789091+000
14	.2614224493-002	-.1492265725-002	14	-.1381283988+001	-.7892472832+000
15	.9098349247-003	-.5988530861-003	15	-.3216629433+001	-.2175017150+001
16	.2918208889-003	-.2188765723-003	16	-.8229113603+001	-.6433825762+001
17	.8679706301-004	-.7360800317-004	17	-.2281279066+002	-.2035807887+002
18	.2406052868-004	-.2295736791-004	18	-.6786276021+002	-.6862404397+002
19	.6241409978-005	-.6682334436-005	19	-.2149894683+003	-.2454409968+003
20	.1520073945-005	-.1824706262-005	20	-.7207636060+003	-.9280271618+003
30	.3994449714-013	-.2582812349-012	30	-.7246851039+009	-.6590879068+010
31	.4288919263-014	-.4238189424-013	31	-.2216252930+010	-.3917910011+011
40	-.3182074290-021	-.8291981761-021	40	.5751431311+018	-.1312032154+019
41	-.4411041069-022	-.9934610505-022	41	.5111795343+019	-.1019589217+020
50	-.1829466354-030	-.1518162688-030	50	.3391495527+028	-.2550275377+028
51	-.1868581437-031	-.1396370356-031	51	.3512046355+029	-.2370710714+029
60	-.8359498726-041	-.1564451147-041	60	.9749044822+038	-.1338602796+038
61	-.6905635554-042	-.9336409224-043	61	.1176576799+040	-.1011807118+039
70	-.5440220645-052	.1805006482-052	70	.1164218948+050	.4506093311+049
71	-.3758693027-053	.1461352740-053	71	.1597181864+051	.7128140996+050
80	-.6295197270-064	.6804936670-064	80	.4330766843+061	.5169595557+061
81	-.3665344591-065	.4385609140-065	81	.6511039956+062	.8618785416+062
90	-.1038745598-076	.4180592513-076	90	.2487151171+073	.1264599373+074
91	-.4540491356-078	.2319847499-077	91	.3331404236+074	.2298652475+075
99	.2741359367-088	.1295337972-087	99	-.9720831636+084	.3683737504+085
100	.1691803521-089	.6391520301-089	100	-.2291234350+086	.7196879267+086

REAL X = .1000000000+002 IMAGINARY X = -.1000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.9287883440-001	.8931990281-001	0	.1218635249+000	.7611977838-001
1	.1117832453+000	.8404374070-001	1	.1041908688+000	-.8057672154-001
2	.1235854298+000	-.6103612106-001	2	-.8852237417-001	-.9695867977-001
3	-.4758074927-001	-.1081415516+000	3	-.1432138916+000	.2819507937-001
4	-.1490672277+000	-.1721114487-001	4	-.1268889286-001	.1065741086+000
5	-.8371776745-001	.7952166958-001	5	.1224102547+000	.6564125469-001
6	.4922868527-001	.9470112716-001	6	.1388579444+000	-.2175182330-001
7	.1348921678+000	.4870723576-001	7	.5911753228-001	-.7576584629-001
8	.1438724695+000	-.2330158042-002	8	-.3980727576-001	-.8199187927-001
9	.1076616193+000	-.2841312572-001	9	-.1123192643+000	-.6894052166-001
10	.6400433311-001	-.3086710057-001	10	-.1585173807+000	-.6882757754-001
11	.3183460905-001	-.2245816264-001	11	-.2029606448+000	-.1071253821+000
12	.1360455621-001	-.1302578457-001	12	-.2792753373+000	-.2213400730+000
13	.5064239130-002	-.6416413970-002	13	-.4335277958+000	-.5098736446+000
14	.1648787778-002	-.2773198749-002	14	-.7433574988+000	-.1257582051+001
15	.4661689828-003	-.1072821591-002	15	-.1339777107+001	-.3314444793+001
16	.1113097861-003	-.3765384272-003	16	-.2351524820+001	-.9326685041+001
17	.2054386380-004	-.1210839338-003	17	-.3296090077+001	-.2792720256+002
18	.1841600180-005	-.3594020246-004	18	.6071739597+000	-.8859295901+002
19	-.6311949189-006	-.9903548407-005	19	.3797523709+002	-.2963988311+003
20	-.4547450367-006	-.2544950816-005	20	.2604809139+003	-.1041253673+004
30	-.2797425554-012	-.9093391609-013	30	.5715990314+010	-.1318304362+010
31	-.4706180872-013	-.9999811033-014	31	.3434460170+011	-.4173051158+010
40	-.7767203439-021	.6852782271-021	40	.8381344269+018	.8912620760+018
41	-.8627859176-022	.9350246650-022	41	.5887188829+019	.7716398404+019
50	.4950494363-031	.2832093388-030	50	-.9276862998+027	.3369813559+028
51	.7678108422-032	.2725257732-031	51	-.1258714190+029	.3241688342+029
60	.9888239675-041	.4005748140-041	60	-.7492389074+038	.2219819441+038
61	.8422689336-042	.2457608689-042	61	-.9180469731+039	.1736564244+039
70	.6057047315-052	-.4354917082-052	70	-.7177608147+049	-.6307560618+049
71	.3946688486-053	-.3489544751-053	71	-.9083151332+050	-.9767261625+050
80	-.7248789671-065	-.1249827717-063	80	.7730071211+060	-.4914372829+061
81	-.1221719717-065	-.7650527628-065	81	.2013989998+062	-.7679044812+062
90	-.5270361590-076	-.2943905365-076	90	.8399147220+073	-.3660243431+073
91	-.3050579320-077	-.1322759743-077	91	.1566287892+075	-.5029004162+074
99	-.1772505139-087	.7338780149-088	99	.2309825096+085	.1235579264+085
100	-.8471681937-089	.4548210709-089	100	.4295208836+086	.2884456120+086

REAL X = .1000000000+002 IMAGINARY X = -.3000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.7338288764+000	.6204227004+000	0	.6250007258+000	.7324937624+000
1	.5406011215+000	.7692161512+000	1	.7710080138+000	-.5360195830+000
2	.8191049157+000	-.3640750433+000	2	-.3685381876+000	-.8163608759+000
3	-.1147628515+000	-.8235021918+000	3	-.8277189885+000	.1108258526+000
4	-.7341494439+000	-.1868898494+000	4	-.1843762353+000	.7280646458+000
5	-.4451217726+000	.4873359401+000	5	.4951354416+000	.4446572645+000
6	.1374019118+000	.5439351239+000	6	.5494331972+000	-.1294245663+000
7	.4143766230+000	.2105561761+000	7	.2064597301+000	-.4024306492+000
8	.3459142857+000	-.8310600048-001	8	-.9917320875-001	-.3391434110+000
9	.1640071807+000	-.1783212358+000	9	-.2024517625+000	-.1729107592+000
10	.3322034513-001	-.1419639583+000	10	-.1633031362+000	-.6812993497-001
11	-.1795211781-001	-.7598655776-001	11	-.7279110637-001	-.5273496492-001
12	-.2299937826-001	-.2973883449-001	12	.4308990794-001	-.8922445284-001
13	-.1433624896-001	-.8047038495-002	13	.2330141426+000	-.1222592563+000
14	-.6532521753-002	-.8477394504-003	14	.6249542963+000	-.4046227795-001
15	-.2367218712-002	.5775537868-003	15	.1462003877+001	.5134240560+000
16	-.6927103820-003	.4705865488-003	16	.3094979324+001	.2748056938+001
17	-.1573913288-003	.2179988121-003	17	.5412175389+001	.1061741762+002
18	-.2267347422-004	.7779413658-004	18	.4055777890+001	.3655813189+002
19	.1204772598-005	.2298352642-004	19	-.2887377925+002	.1176091892+003
20	.2313737720-005	.5733695509-005	20	-.2336066866+003	.3532524334+003
30	-.3871545188-012	-.9092460728-012	30	.1022081783+010	-.1321696986+010
31	-.1091478559-012	-.1270754817-012	31	.7835450232+010	-.5394877622+010
40	.1461672144-020	.4784661287-020	40	-.1309016440+018	.2048674656+018
41	.3582967064-021	.5273579717-021	41	-.1420878972+019	.1199117032+019
50	-.2845834256-030	-.1991688944-029	50	.1962158571+027	-.4379936554+027
51	-.8742866111-031	-.1861594543-030	51	.3029405073+028	-.3462318268+028
60	-.3984603687-041	.1084866645-039	60	-.1800524733+037	.7160735395+037
61	.2371523091-041	.8961085817-041	61	-.4386697121+038	.7284322382+038
70	.2511634862-051	-.1077084257-050	70	.3482761703+047	-.6189142888+048
71	-.5291779063-053	-.8093032987-052	71	.2863413967+049	-.7825521688+049
80	-.1128844778-062	.2460890685-062	80	.3160599891+059	.2190217236+060
81	-.2365485696-064	.1723886628-063	81	-.5098613893+060	.3361931862+061
90	.1133342347-074	-.1532399840-074	90	-.9548756314+071	-.2623622085+072
91	.3672592799-076	-.1026588610-075	91	-.2688374191+072	-.4819266871+073
99	-.7741791649-086	.3553368352-086	99	.4272495253+083	.3737445836+083
100	-.3324372860-087	.2934799508-087	100	.5725756515+084	.9151031474+084

REAL X = .1000000000+002 IMAGINARY X = -.1000000000+002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.7616160678+003	.1624729470+003	0	.1624729502+003	.7616160685+003
1	.1162684994+003	.7316589124+003	1	.7316589119+003	-.1162684961+003
2	.6693075058+003	-.3528383525+002	2	-.3528383897+002	-.6693075061+003
3	.5987933585+002	-.5731529948+003	3	-.5731529951+003	-.5987934017+002
4	-.4477461901+003	-.1443619454+003	4	-.1443619403+003	.4477461888+003
5	-.1964022460+003	.3067043338+003	5	.3067043370+003	.1964022520+003
6	.1710375712+003	.2050280937+003	6	.2050280870+003	-.1710375648+003
7	.1743084604+003	-.6226165161+002	7	-.6226166337+002	-.1743084125+003
8	.6389972264+001	-.1209930276+003	8	-.1209930252+003	-.6389992145+001
9	-.6603285654+002	-.3515094541+002	9	-.3515091469+002	.6603284782+002
10	-.3572778784+002	.2486841572+002	10	.2486845077+002	.3572782862+002
11	.2406842803+001	.2374860469+002	11	.2374856795+002	-.2406754469+001
12	.1118476167+002	.5210348890+001	12	.5210170012+001	-.1118474312+002
13	.5061173178+001	-.3254716480+001	13	-.3254926531+001	-.5061461916+001
14	.4168936465-001	-.2771632347+001	14	-.2771347242+001	-.4238128291-001
15	-.9818566964+000	-.7037008443+000	15	-.7020741099+000	.9815555550+000
16	-.4728309353+000	.1590181590+000	16	.1617212615+000	.4755775227+000
17	-.6369430928-001	.1859097634+000	17	.1842112789+000	.6998743897-001
18	.4127380822-001	.6010888563-001	18	.3817045835-001	-.3072976647-001
19	.2584941609-001	.1648220262-002	19	-.5674586295-001	-.5622215900-001
20	.5918523640-002	-.6488494741-002	20	-.3919168107-001	-.1895578763+000
30	-.1910754896-007	-.2690094482-009	30	.4718243957+005	.3702475745+005
31	-.2917146099-008	.3125199360-008	31	.1691069437+005	.2593740814+006
40	.5916460986-015	.1540891706-014	40	-.4675116842+012	.2430903411+012
41	.2597608499-015	.1069318384-015	41	-.2852533333+013	-.9995867057+012
50	.1015042463-022	-.6946357509-023	50	-.1264686704+020	-.5540808190+020
51	.2802199080-024	-.1664513468-023	51	.2229020550+021	-.3395048314+021
60	-.8794051637-032	-.9291898276-032	60	.4557552341+029	-.2500977756+028
61	-.1470439275-032	-.2135014649-034	61	.2873026111+030	.2646912896+030
70	-.1653253964-041	.1965770966-041	70	-.1287681577+038	.1947389376+039
71	.2429031194-043	.2528215424-042	71	-.1476928520+040	.1267332247+040
80	.1027080380-051	.7231707458-052	80	-.3452869235+049	-.5448102179+048
81	.1072270290-052	-.1944100599-053	81	-.2315994624+050	-.3236620634+050
90	.9262814581-063	-.1522959424-062	90	.4926429429+059	-.2135223643+060
91	-.3339362458-064	-.1336364749-063	91	.2387487604+061	-.1471913812+061
99	-.3395040755-073	-.1146507397-072	99	.2596725455+070	-.1444346737+070
100	-.7412417518-074	-.3978517141-074	100	.4015124296+071	.1167159209+071

REAL X = .1000000000+002 IMAGINARY X = -.1000000000+003

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.1188990994+042	-.6122971374+041	0	-.6122971374+041	.1188990994+042
1	-.6074120084+041	.1176612571+042	1	.1176612571+042	.6074120084+041
2	.1152237912+042	.5977500854+041	2	.5977500854+041	-.1152237912+042
3	.5835245680+041	-.1116611932+042	3	-.1116611932+042	-.5835245680+041
4	-.1070804736+042	-.5650466832+041	4	-.5650466832+041	.1070804736+042
5	-.5427156979+041	.1016158618+042	5	.1016158618+042	.5427156979+041
6	.9542232306+041	.5170061070+041	6	.5170061070+041	-.9542232306+041
7	.4884524386+041	-.8866832724+041	7	-.8866832724+041	-.4884524386+041
8	-.8152833520+041	-.4576322291+041	8	-.4576322291+041	.8152833520+041
9	-.4251478228+041	.7417546409+041	9	.7417546409+041	.4251478228+041
10	.6677475199+041	.3916077260+041	10	.3916077260+041	-.6677475199+041
11	.3576082935+041	-.5947737088+041	11	-.5947737088+041	-.3576082935+041
12	-.5241604468+041	-.3237165258+041	12	-.3237165258+041	.5241604468+041
13	-.2904547091+041	.4570182387+041	13	.4570182387+041	.2904547091+041
14	.3942226235+041	.2582875366+041	14	.2582875366+041	-.3942226235+041
15	.2276122046+041	-.3364094274+041	15	-.3364094274+041	-.2276122046+041
16	-.2839821276+041	-.1987518028+041	16	-.1987518028+041	.2839821276+041
17	-.1719521207+041	.2371293170+041	17	.2371293170+041	.1719521207+041
18	.1958498650+041	.1473817868+041	18	.1473817868+041	-.1958498650+041
19	.1251354711+041	-.1599832019+041	19	-.1599832019+041	-.1251354711+041
20	-.1292422095+041	-.1052397186+041	20	-.1052397186+041	.1292422095+041
30	.8093821370+039	.1085669518+040	30	.1085669518+040	-.8093821370+039
31	.8185428652+039	-.5733407588+039	31	-.5733407588+039	-.8185428652+039
40	-.1281192103+038	-.4048052317+038	40	-.4048052317+038	.1281192101+038
41	-.2750845560+038	.7571837340+037	41	.7571837369+037	.2750845559+038
50	-.5649362783+035	.5257662822+036	50	.5257672206+036	.5649488046+035
51	.3208059111+036	.4928619305+035	51	.4928423054+035	-.3208042988+036
60	.1508378875+034	-.2245178441+034	60	-.2509482686+034	-.1635961076+034
61	-.1217385503+034	-.9132191410+033	61	-.7117727716+033	.7387055171+033
70	-.5351017608+031	.2468440436+031	70	.1282240347+036	-.1168495160+035
71	.1115641891+031	.2839340243+031	71	.3653637367+035	.2448416086+036
80	.5597791317+028	.9565638280+027	80	-.9855555983+038	.8072763326+038
81	.6245680566+027	-.2642457213+028	81	-.1804618786+039	-.1942779249+039
90	-.1719325619+025	-.1834622451+025	90	.6555957273+041	-.2660272174+042
91	-.8625611776+024	.7057983358+024	91	.6056669299+042	.1070725643+042
99	-.1266514018+022	.1711870879+021	99	.4801758952+045	-.1874989045+045
100	.3382960410+020	.5297732654+021	100	.5286083618+045	.1116015223+046

REAL X = .2000000000+002 IMAGINARY X = .0000000000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4564726254-001	.0000000000	0	-.2040410309-001	.0000000000
1	-.1812173996-001	.0000000000	1	-.4666746769-001	.0000000000
2	-.4836552353-001	.0000000000	2	.1340398294-001	.0000000000
3	.6030359081-002	.0000000000	3	.5001846343-001	.0000000000
4	.5047614921-001	.0000000000	4	.4102479262-002	.0000000000
5	.1668390806-001	.0000000000	5	-.4817234776-001	.0000000000
6	-.4129999977-001	.0000000000	6	-.3059727053-001	.0000000000
7	-.4352890792-001	.0000000000	7	.2828412191-001	.0000000000
8	.8653318837-002	.0000000000	8	.5181036196-001	.0000000000
9	.5088422893-001	.0000000000	9	.1575468576-001	.0000000000
10	.3968669864-001	.0000000000	10	-.3684341050-001	.0000000000
11	-.9213195351-002	.0000000000	11	-.5444026678-001	.0000000000
12	-.5028187330-001	.0000000000	12	-.2576289630-001	.0000000000
13	-.5363914627-001	.0000000000	13	.2223664641-001	.0000000000
14	-.2213097417-001	.0000000000	14	.5578236894-001	.0000000000
15	.2154923373-001	.0000000000	15	.5864778856-001	.0000000000
16	.5553228645-001	.0000000000	16	.3512170333-001	.0000000000
17	.7007903891-001	.0000000000	17	-.6969780704-003	.0000000000
18	.6710603164-001	.0000000000	18	-.3634141495-001	.0000000000
19	.5406711963-001	.0000000000	19	-.6653463959-001	.0000000000
20	.3832485164-001	.0000000000	20	-.9340113225-001	.0000000000
30	.2106357694-004	.0000000000	30	-.5161670075+002	.0000000000
31	.7502467639-005	.0000000000	31	-.1370732347+003	.0000000000
40	.1419799206-009	.0000000000	40	-.5000783832+007	.0000000000
41	.3640110927-010	.0000000000	41	-.1889023509+008	.0000000000
50	.5650080792-016	.0000000000	50	-.9542541667+013	.0000000000
51	.1140918064-016	.0000000000	51	-.4617407569+014	.0000000000
60	.2629722269-023	.0000000000	60	-.1664999491+021	.0000000000
61	.4393300625-024	.0000000000	61	-.9784867641+021	.0000000000
70	.2142188069-031	.0000000000	70	-.1726303096+029	.0000000000
71	.3056173370-032	.0000000000	71	-.1191659525+030	.0000000000
80	.4002448691-040	.0000000000	80	-.8010434261+037	.0000000000
81	.4986247260-041	.0000000000	81	-.6345970184+038	.0000000000
90	.2085439555-049	.0000000000	90	-.1358214079+047	.0000000000
91	.2306745878-050	.0000000000	91	-.1213811516+048	.0000000000
99	.3497874872-058	.0000000000	99	-.7332789791+055	.0000000000
100	.3515271113-059	.0000000000	100	-.7220889358+056	.0000000000

REAL X = .2000000000+002 IMAGINARY X = -.1000000000-002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4564728627-001	-.1812174218-004	0	-.2040411096-001	-.4666747569-004
1	-.1812174661-001	-.4745944458-004	1	-.4666749169-001	.1573735812-004
2	-.4836554789-001	.1086691241-004	2	.1340398710-001	.4867807322-004
3	.6030359527-002	.4957160333-004	3	.5001848785-001	-.3400290010-005
4	.5047617286-001	.6588680005-005	4	.4102483660-002	-.4899285118-004
5	.1668391805-001	-.4547098345-004	5	-.4817236911-001	-.1855418709-004
6	-.4130001670-001	-.3113891310-004	6	-.3059728609-001	.3746330816-004
7	-.4352892783-001	.2388843945-004	7	.2828413198-001	.4191092554-004
8	.8653320014-002	.4742290785-004	8	.5181038345-001	-.4969459144-005
9	.5088424781-001	.1678879822-004	9	.1575469406-001	-.4393302451-004
10	.3968671448-001	-.2905654781-004	10	-.3684342205-001	-.3601856607-004
11	-.9213196177-002	-.4521462084-004	11	-.5444028522-001	.4179250578-005
12	-.5028188746-001	-.2347002480-004	12	-.2576290604-001	.3769438783-004
13	-.5363916155-001	.1273447195-004	13	.2223665040-001	.4132855246-004
14	-.2213098128-001	.3704091850-004	14	.5578238121-001	.1960013176-004
15	.2154923607-001	.3937036361-004	15	.5864780074-001	-.8864138858-005
16	.5553229405-001	.2565321072-004	16	.3512171039-001	-.2879434241-004
17	.7007904677-001	.7538848229-005	17	-.6969763649-003	-.3574898490-004
18	.6710603683-001	-.6328309778-005	18	-.3634141590-001	-.3382736644-004
19	.5406712164-001	-.1303891290-004	19	-.6653463975-001	-.3019322382-004
20	.3832485137-001	-.1382602596-004	20	-.9340112834-001	-.3153654722-004
30	.2106356419-004	-.2409289368-007	30	-.5161666357+002	-.5964816716-001
31	.7502462540-005	-.9059626959-008	31	-.1370731249+003	-.1677004240+000
40	.1419797129-009	-.2475586204-012	40	-.5000775636+007	-.8888662215+004
41	.3640105239-010	-.6553755949-013	41	-.1889020214+008	-.3466868829+005
50	.5650066257-016	-.1298427336-018	50	-.9542514906+013	-.2231769961+011
51	.1140914986-016	-.2683691535-019	51	-.4617394019+014	-.1105099417+012
60	.2629711925-023	-.7449827363-026	60	-.1664992467+021	-.4789862169+018
61	.4393282686-024	-.1267797416-026	61	-.9784824842+021	-.2866804681+019
70	.2142176191-031	-.7192028043-034	70	-.1726292941+029	-.5874522522+026
71	.3056155890-032	-.1041963732-034	71	-.1191652300+030	-.4117335397+027
80	.4002419048-040	-.1551113280-042	80	-.8010371810+037	-.3141788094+035
81	.4986209334-041	-.1958082485-043	81	-.6345919409+038	-.2521736527+036
90	.2085419706-049	-.9153775064-052	90	-.1358200552+047	-.6026131323+044
91	.2306723404-050	-.1024333203-052	91	-.1213799148+048	-.5447692629+045
99	.3497834183-058	-.1696288915-060	99	-.7332700919+055	-.3591143595+053
100	.3515229351-059	-.1722656284-061	100	-.7220800019+056	-.3573206182+054

REAL X = .2000000000+002 IMAGINARY = -.1000000000-001

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.4564963553-001	-.1812196138-003	0	-.2040488996-001	-.4666826783-003
1	-.1812240423-001	-.4746024161-003	1	-.4666986810-001	.1573753636-003
2	-.4836795989-001	.1086700893-003	2	.1340439969-001	.4867887377-003
3	.6030403694-002	.4957239381-003	3	.5002090634-001	-.3400266011-004
4	.5047851390-001	.6588856610-004	4	.4102919099-002	-.4899360093-003
5	.1668490706-001	-.4547164280-003	5	-.4017448297-001	-.1855453324-003
6	-.4130169227-001	-.3113941907-003	6	-.3059882709-001	.3746381225-003
7	-.4353089912-001	.2388872080-003	7	.2828512858-001	.4191154348-003
8	.8653436509-002	.4742354688-003	8	.5181251105-001	-.4969470439-004
9	.5088611676-001	.1678905493-003	9	.1575551592-001	-.4393356113-003
10	.3968828258-001	-.2905685875-003	10	-.3684456598-001	-.3601901538-003
11	-.9213277921-002	-.4521511467-003	11	-.5444211143-001	.4179265205-004
12	-.5028328955-001	-.2347027347-003	12	-.2576387054-001	.3769474854-003
13	-.5364067162-001	.1273457535-003	13	.2223704571-001	.4132891719-003
14	-.2213168499-001	.3704120147-003	14	.5578359578-001	.1960027592-003
15	.2154946786-001	.3937060859-003	15	.5864900584-001	-.8864214521-004
16	.5553304670-001	.2565330684-003	16	.3512240925-001	-.2879450818-003
17	.7007982465-001	.7538814311-004	17	-.6968075166-003	-.3574911406-003
18	.6710654981-001	-.6328401967-004	18	-.3634150929-001	-.3382739642-003
19	.5406731999-001	-.1303900072-003	19	-.6653465496-001	-.3019314245-003
20	.3832482496-001	-.1382608070-003	20	-.9340074107-001	-.3153634387-003
30	.2106230195-004	-.2409248784-006	30	-.5161298296+002	-.5964653749+000
31	.7501957759-005	-.9059452503-007	31	-.1370622530+003	-.1676953917+001
40	.1419591519-009	-.2475475834-011	40	-.4999964293+007	-.8888145961+005
41	.3639542180-010	-.6553442645-012	41	-.1888694025+008	-.3466655198+006
50	.5648627310-016	-.1298322816-017	50	-.9539865658+013	-.2231552985+012
51	.1140610326-016	-.2683464654-018	51	-.4616052587+014	-.1104987149+013
60	.2628687968-023	-.7448898801-025	60	-.1664297108+021	-.4789169371+019
61	.4391506860-024	-.1267633224-025	61	-.9780588084+021	-.2866375135+020
70	.2141000407-031	-.7190754838-033	70	-.1725287679+029	-.5873345788+027
71	.3054425538-032	-.1041773342-033	71	-.1190937128+030	-.4116485856+028
80	.3999484732-040	-.1550744638-041	80	-.8004190096+037	-.3140957922+036
81	.4982455100-041	-.1957604361-042	81	-.6340893367+038	-.2521052932+037
90	.2083454927-049	-.9150969055-051	90	-.1356861622+047	-.6024104092+045
91	.2304498771-050	-.1024011683-051	91	-.1212574934+048	-.5445818201+046
99	.3493806716-058	-.1695651821-059	99	-.7323904417+055	-.3589676931+054
100	.3511095771-059	-.1721995362-060	100	-.7211957289+056	-.3571716783+055

REAL X = .2000000000+002 IMAGINARY X = -.1000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4588476105-001	-.1814388888-002	0	-.2048283489-001	-.4674752110-002
1	-.1818820061-001	-.4753998383-002	1	-.4690770854-001	.1575536545-002
2	-.4860935753-001	.1087666149-002	2	.1344567289-001	.4875896782-002
3	.6034805476-002	.4965147945-002	3	.5026294801-001	-.3397861527-003
4	.5071279785-001	.6606528336-003	4	.4146513736-002	-.4906861002-002
5	.1678389662-001	-.4553760659-002	5	-.4838602331-001	-.1858916675-002
6	-.4146936296-001	-.3119004022-002	6	-.3075304937-001	.3751424153-002
7	-.4372817217-001	.2391686667-002	7	.2838484912-001	.4197336503-002
8	.8665085108-002	.4748747633-002	8	.5202541439-001	-.4970599503-003
9	.5107312871-001	.1681473603-002	9	.1583776005-001	-.4398724415-002
10	.3984518741-001	-.2908796347-002	10	-.3695902506-001	-.3606396297-002
11	-.9221457041-002	-.4526451409-002	11	-.5462483311-001	.4180729376-003
12	-.5042357145-001	-.2349514694-002	12	-.2586036645-001	.3773083218-002
13	-.5379174748-001	.1274492019-002	13	.2227660198-001	.4136539929-002
14	-.2220207482-001	.3706950688-002	14	.5590510636-001	.1961469386-002
15	.2157266907-001	.3939491087-002	15	.5876955544-001	-.8871785324-003
16	.5560834567-001	.2566291851-002	16	.3519230276-001	-.2881109066-002
17	.7015763612-001	.7535419925-003	17	-.6799389693-003	-.3576203344-002
18	.6715785489-001	-.6337623610-003	18	-.3635087522-001	-.3383039648-002
19	.5408715161-001	-.1304778422-002	19	-.6653620666-001	-.3018500733-002
20	.3832217534-001	-.1383155410-002	20	-.9336205456-001	-.3151601431-002
30	.2093616511-004	-.2405191681-005	30	-.5124549353+002	-.5948373975+001
31	.7451520511-005	-.9042013582-006	31	-.1359768999+003	-.1671927225+002
40	.1399073023-009	-.2464451257-010	40	-.4919084094+007	-.8836623981+006
41	.3583361541-010	-.6522150599-011	41	-.1856183168+008	-.3445337360+007
50	.5505285375-016	-.1287893629-016	50	-.9276302021+013	-.2209925442+013
51	.1110267440-016	-.2660828599-017	51	-.4482628557+014	-.1093798083+014
60	.2526909224-023	-.7356364341-024	60	-.1595286732+021	-.4720215681+020
61	.4215036884-024	-.1251273225-024	61	-.9360226328+021	-.2823629684+021
70	.2024435157-031	-.7064071018-032	70	-.1625805686+029	-.5756429104+028
71	.2882930156-032	-.1022832729-032	71	-.1120184674+030	-.4032093922+029
80	.3709461758-040	-.1514130392-040	80	-.7394440586+037	-.3058638290+037
81	.4611513774-041	-.1910125316-041	81	-.5845310444+038	-.2453282102+038
90	.1889928223-049	-.8872838927-050	90	-.1225280061+047	-.5823533245+046
91	.2085457569-050	-.9921497058-051	91	-.1092314162+048	-.5260409460+047
99	.3098481367-058	-.1632632750-058	99	-.6462620975+055	-.3444890510+055
100	.3105519423-059	-.1656635034-059	100	-.6346520433+056	-.3424724260+056

REAL X = .2000000000+002 IMAGINARY X = -.5000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.5170653395-001	-.9339818985-002	0	-.2239953238-001	-.2434656253-001
1	-.1980415302-001	-.2474866899-001	1	-.5279539683-001	.8095269286-002
2	-.5458255188-001	.5555618188-002	2	.1445493103-001	.2536223539-001
3	.6132337320-002	.2579577815-001	3	.5624843247-001	-.1668384549-002
4	.5650195726-001	.3520889298-002	4	.5234412918-002	-.2545393888-001
5	.1923807693-001	-.2357711761-001	5	-.5360823996-001	-.9719883134-002
6	-.4560364103-001	-.1621584607-001	6	-.3456696366-001	.1937468939-001
7	-.4859858578-001	.1230280494-001	7	.3083910559-001	.2174420288-001
8	.8946934537-002	.2452653211-001	8	.5727439690-001	-.2498851399-002
9	.5567786678-001	.8721729387-002	9	.1786679118-001	-.2265057915-001
10	.4370698913-001	-.1492454111-001	10	-.3977393181-001	-.1858168716-001
11	-.9422668490-002	-.2323611759-001	11	-.5911586963-001	.2108580664-002
12	-.5386866846-001	-.1205103611-001	12	-.2822743909-001	.1930652065-001
13	-.5749474883-001	.6499387024-002	13	.2325065775-001	.2112793986-001
14	-.2391997886-001	.1888049241-001	14	.5888359898-001	.9982602149-002
15	.2214845307-001	.1999366957-001	15	.6171558755-001	-.4529010607-002
16	.5745436742-001	.1294805514-001	16	.3689120162-001	-.1460819857-001
17	.7205826671-001	.3725789409-002	17	-.2809133444-003	-.1803865019-001
18	.6840593334-001	-.3281416158-002	18	-.3659379491-001	-.1695200408-001
19	.5456533572-001	-.6630819240-002	19	-.6659178162-001	-.1499437474-001
20	.3825306187-001	-.6982206480-002	20	-.9244855201-001	-.1551308534-001
30	.1793084990-004	-.1153803325-004	30	-.4267651871+002	-.2781896201+002
31	.6253464477-005	-.4311663156-005	31	-.1107567409+003	-.7767155377+002
40	.9269553388-010	-.1102332896-009	40	-.3106978360+007	-.3824309382+007
41	.2295917289-010	-.2893258399-010	41	-.1131140664+008	-.1477576612+008
50	.2353936800-016	-.5242670342-016	50	-.3666504923+013	-.8631691598+013
51	.4466250786-017	-.1071427977-016	51	-.1659083258+014	-.4222347410+014
60	.4131573777-024	-.2650427217-023	60	-.2159107755+020	-.1617343867+021
61	.5732604230-025	-.4445867655-024	61	-.1016135554+021	-.9532341319+021
70	-.2351573562-032	-.2178930177-031	70	.2191927891+028	-.1672511498+029
71	-.4163695552-033	-.3099735827-032	71	.1813134920+029	-.1149846972+030
80	-.1471748054-040	-.3834278959-040	80	.2965825172+037	-.7218282193+037
81	-.1956579912-041	-.4729333093-041	81	.2495637714+038	-.5654160642+038
90	-.1253132789-049	-.1742642428-049	90	.7953481695+046	-.1052462454+047
91	-.1435451011-050	-.1892024352-050	91	.7344417106+047	-.9217576952+047
99	-.2720346666-058	-.2373234714-058	99	.5462382652+055	-.4539745098+055
100	-.2794652435-059	-.2315264719-059	100	.5489676662+056	-.4330423724+056

REAL X = .2000000000+002 IMAGINARY X = -.1000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.7145770890-001	-.2040604086-001	0	-.2873111270-001	-.5508127305-001
1	-.2511624931-001	-.5592083193-001	1	-.7275332231-001	.1758719654-001
2	-.7479739085-001	.1185093198-001	2	.1771375377-001	.5716848459-001
3	.6315766155-002	.5794354076-001	3	.7645789327-001	-.3109846844-002
4	.7599091323-001	.8488983411-002	4	.9034061653-002	-.5691954021-001
5	.2760434240-001	-.5242749280-001	5	-.7112520759-001	-.2223731197-001
6	-.5940822558-001	-.3649497007-001	6	-.4744537147-001	.4276845314-001
7	-.6494026270-001	.2683896624-001	7	.3897611414-001	.4842935184-001
8	.9820536543-002	.5414481030-001	8	.7479298734-001	-.5079058469-002
9	.7097148626-001	.1948568369-001	9	.2465470803-001	-.4956501043-001
10	.5651097665-001	-.3231683513-001	10	-.4908095679-001	-.4072209991-001
11	-.1009052933-001	-.5037431273-001	11	-.7392861765-001	.4343110042-002
12	-.6519684772-001	-.2604791806-001	12	-.3597404482-001	.4146392638-001
13	-.6957836321-001	.1383097053-001	13	.2648816734-001	.4511477541-001
14	-.2943096380-001	.3998833771-001	14	.6860624290-001	.2107263034-001
15	.2411796251-001	.4187909912-001	15	.7121885162-001	-.9674110479-002
16	.6348304511-001	.2662687000-001	16	.4225556614-001	-.3052441112-001
17	.7817660871-001	.7169964940-002	17	.8409469432-003	-.3708817795-001
18	.7235904298-001	-.7287326948-002	18	-.3755045620-001	-.3414464479-001
19	.5602619155-001	-.1394137978-001	19	-.6698554976-001	-.2938664505-001
20	.3797547876-001	-.1438163754-001	20	-.8988757287-001	-.2953121451-001
30	.9180864013-005	-.2012138388-004	30	-.1979867896+002	-.4479614553+002
31	.2809159398-005	-.7364976172-005	31	-.4439668234+002	-.1222216202+003
40	-.2561412598-010	-.1481427271-009	40	.9596497599+006	-.4614920058+007
41	-.8720035070-011	-.3758528626-010	41	.4621074630+007	-.1717792284+008
50	-.4810949541-016	-.4525289562-016	50	.6170722815+013	-.6416544273+013
51	-.8591249925-017	-.8696211272-017	51	.3147186058+014	-.2934223840+014
60	-.2710114248-023	-.8715305889-024	60	.1481276433+021	-.4056789822+020
61	-.4603474396-024	-.1216558598-024	61	.8809027934+021	-.1917387029+021
70	-.2293566910-031	.4956624943-032	70	.1521555771+029	.4021914632+028
71	-.3234808696-032	.8773179663-033	71	.1033201429+030	.3315949093+029
80	-.3304894381-040	.2960609718-040	80	.5144360851+037	.5060423640+037
81	-.3926588641-041	.3900134637-041	81	.3858592674+038	.4208727150+038
90	-.7510599646-050	.2216245062-049	90	.3333147079+046	.1161976137+047
91	-.7051147404-051	.2493753832-050	91	.2440024014+047	.1051054567+048
99	.5262069460-059	.7933163047-058	99	-.1161080257+055	.6349959447+055
100	.7304043823-060	.3925442470-059	100	-.1458932109+056	.6179078419+056

REAL X = .2000000000+002 IMAGINARY X = -.3000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4794347904+000	-.1324905542+000	0	-.1338174359+000	-.4773611823+000
1	-.1094013787+000	-.4803233004+000	1	-.4824770035+000	.1081661431+000
2	-.4849144310+000	.5962009306-001	2	.6065822931-001	.4826122227+000
3	-.1134616289-001	.4771151924+000	3	.4796081517+000	.1205658478-001
4	.4565332505+000	.1031133972+000	4	.1028917779+000	-.4538599170+000
5	.2054584409+000	-.4015983214+000	5	-.4043642940+000	-.2050069688+000
6	-.3136149074+000	-.3025547224+000	6	-.3038573395+000	.3109612499+000
7	-.3759724832+000	.1793606461+000	7	.1815515873+000	.3737098752+000
8	.1810641302-001	.3927489329+000	8	.3959075396+000	-.1687131350-001
9	.3420506857+000	.1493876773+000	9	.1496684627+000	-.3383674842+000
10	.2788719806+000	-.2062838804+000	10	-.2096949175+000	-.2766459032+000
11	-.2390370211-001	-.3182637042+000	11	-.3223951582+000	.2198103153-001
12	-.2520639301+000	-.1556981718+000	12	-.1566037718+000	.2469792860+000
13	-.2556919023+000	.8170164875-001	13	.8565340427-001	.2512325629+000
14	-.1017049226+000	.2129300697+000	14	.2199362919+000	.1016845519+000
15	.6617167936-001	.1986189189+000	15	.2046069705+000	-.6025890641-001
16	.1568513327+000	.1032012161+000	16	.1039259477+000	-.1464981209+000
17	.1619578052+000	.5882510357-002	17	-.1443050040-002	-.1509898051+000
18	.1188278851+000	-.5155494031-001	18	-.6763305161-001	-.1122941035+000
19	.6702809533-001	-.6691126485-001	19	-.9044891255-001	-.7053808083-001
20	.2814163166-001	-.5687659863-001	20	-.8468283185-001	-.4810253561-001
30	-.3145358022-004	.8401995661-005	30	.3089323716+002	.9534914010+001
31	-.1049696963-004	.5077304092-005	31	.7518624344+002	.4108605926+002
40	.1082758986-009	.2103096991-009	40	-.1608086644+007	.2474091188+007
41	.3677195491-010	.4891214682-010	41	-.7521614870+007	.8098154296+007
50	.8791238985-016	-.5464632945-016	50	-.4002692025+013	-.3218703597+013
51	.1590706555-016	-.1388017780-016	51	-.1643028714+014	-.1832338724+014
60	-.2916718998-023	-.4465813835-023	60	.5276952760+020	-.6150509220+020
61	-.6043976671-024	-.6674083321-024	61	.3593964253+021	-.3049990125+021
70	-.4063659786-031	.2603118827-031	70	.5762404342+028	.4908179204+028
71	-.5209516594-032	.4613034510-032	71	.3369581036+029	.3921304845+029
80	.5175409534-040	.8594514365-040	80	-.1988161187+037	.2453292056+037
81	.8095805604-041	.9698547486-041	81	-.1834437432+038	.1661381876+038
90	.5104282779-049	-.2801639793-049	90	-.3847105431+046	-.2883395533+046
91	.5165062676-050	-.3963658958-050	91	-.2973686327+047	-.3036900565+047
99	-.3197906657-058	-.1028271543-057	99	.1011508864+055	-.2125938495+055
100	-.4792534952-059	-.9834950010-059	100	.1287589452+056	-.1897729755+056

REAL X = .2000000000+002 IMAGINARY X = -.1000000000+002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.4920652032+003	.2131746264+002	0	.2131746107+002	-.4920652019+003
1	.4057371995+002	-.4813711993+003	1	-.4813712007+003	-.4057372150+002
2	-.4583140848+003	-.7664758336+002	2	-.7664758186+002	.4583140833+003
3	-.1245717786+003	.4202102741+003	3	.4202102760+003	.1245717800+003
4	.3646045484+003	.1768664111+003	4	.1768664099+003	-.3646045462+003
5	.2239934520+003	-.2909095474+003	5	-.2909095501+003	-.2239934628+003
6	-.2020473247+003	-.2555880504+003	6	-.2555880502+003	.2020473216+003
7	-.2626051778+003	.1054714568+003	7	.1054714604+003	.2626051770+003
8	.1284278101+002	.2400893711+003	8	.2400893733+003	-.1284277726+002
9	.1897078827+003	.6215586108+002	9	.6215585772+002	-.1897078786+003
10	.1077159826+003	-.1207619213+003	10	-.1207619276+003	-.1077159845+003
11	-.4850645034+002	-.1183551623+003	11	-.1183551634+003	.4850644202+002
12	-.9789854228+002	-.1043779516+002	12	-.1043778607+002	.9789853605+002
13	-.4417319436+002	.5896809597+002	13	.5896810928+002	.4417320100+002
14	.1834872055+002	.5026981384+002	14	.5026981555+002	-.1834869996+002
15	.3630121817+002	.9987146010+001	15	.9987122732+001	-.3630119993+002
16	.2047275945+002	-.1537899753+002	16	-.1537903940+002	-.2047277186+002
17	.8729626805+000	-.1677540151+002	17	-.1677542531+002	-.8730249330+000
18	-.7507830645+001	-.7495490707+001	18	-.7495438584+001	.7507739238+001
19	-.6437888911+001	.1262805847+000	19	.1264491738+000	.6437854453+001
20	-.2633774913+001	.2670935068+001	20	.2671172822+001	.2633944064+001
30	-.8474033095-003	.1551415879-002	30	.1467931451+000	.4401798233+000
31	.5494800232-004	.6645989860-003	31	-.3313414505+000	.1137836056+001
40	-.2390588356-007	.8008492007-008	40	.1899647588+005	.1419485215+005
41	-.4657883582-008	.5311314746-008	41	.3157450130+005	.7605181577+005
50	-.1782235304-013	-.1854959489-013	50	.1652917802+011	-.7575779551+010
51	-.5475782700-014	-.1703888934-014	51	.7958346215+011	.6196689218+010
60	.1702320862-020	-.2821507468-020	60	-.1610276635+017	-.1155328124+018
61	.3153978408-022	-.6097172490-021	61	.2148880175+018	-.5801007474+018
70	.7101297917-028	.2833455106-028	70	-.4268108940+025	-.1762348019+024
71	.1206058841-028	-.1260382731-029	71	-.2294509105+026	-.1333005891+026
80	-.1135644444-036	.3989802672-036	80	-.1050814560+033	.6768456564+033
81	.1152722398-037	.5636934194-037	81	-.2887406476+034	.3928192675+034
90	-.6206444122-045	-.1355765953-045	90	.3861737132+042	.8767527172+041
91	-.7566137393-046	.2018502506-046	91	.2430174499+043	.2045235405+043
99	.1723366103-053	-.2246565865-053	99	-.1691585364+050	-.7876955422+050
100	.5702215275-055	-.3121265868-054	100	.1846891577+051	-.6871989459+051

REAL X = .2000000000+002 IMAGINARY X = -.1000000000+003

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.7633620871+041	.1074379472+042	0	.1074379472+042	-.7633620871+041
1	.1065516904+042	-.7539559527+041	1	-.7539559527+041	-.1065516904+042
2	-.7354661448+041	-.1047993153+042	2	-.1047993153+042	.7354661448+041
3	-.1022204407+042	.7085201462+041	3	.7085201462+041	.1022204407+042
4	.6740168449+041	.9887287044+041	4	.9887287044+041	-.6740168449+041
5	.9483070226+041	-.6330791532+041	5	-.6330791532+041	-.9483070226+041
6	-.5869962090+041	-.9018190591+041	6	-.9018190591+041	.5869962090+041
7	-.8502545455+041	.5371591506+041	7	.5371591506+041	.8502545455+041
8	.4849947581+041	.7946811675+041	8	.7946811675+041	-.4849947581+041
9	.7362103371+041	-.4319012000+041	9	-.4319012000+041	-.7362103371+041
10	-.3791897380+041	-.6759622074+041	10	-.6759622074+041	.3791897380+041
11	-.6150314000+041	.3280355676+041	11	.3280355676+041	.6150314000+041
12	.2794400987+041	.5544549133+041	12	.5544549133+041	-.2794400987+041
13	.4951835891+041	-.2342059808+041	13	-.2342059808+041	-.4951835891+041
14	-.1929251673+041	-.4380583305+041	14	-.4380583305+041	.1929251673+041
15	-.3837919966+041	.1559793638+041	15	.1559793638+041	.3837919966+041
16	.1235514110+041	.3329575628+041	16	.3329575628+041	-.1235514110+041
17	.2859827633+041	-.9564555151+040	17	-.9564555151+040	-.2859827633+041
18	-.7211416438+040	-.2431510450+041	18	-.2431510450+041	.7211416438+040
19	-.2046083033+041	.5268841867+040	19	.5268841867+040.	.2046083033+041
20	.3701038463+040	.1703745627+041	20	.1703745627+041	-.3701038463+040
30	.3995754981+039	-.1464906856+040	30	-.1464906856+040	-.3995754981+039
31	-.1071083664+040	-.3596281777+039	31	-.3596281777+039	.1071083664+040
40	-.4143640618+038	.3172062415+038	40	.3172062416+038	.4143640619+038
41	.1939715018+038	.2964549793+038	41	.2964549791+038	-.1939715016+038
50	.7170240971+036	.1113651094+036	50	.1113640710+036	-.7170244382+036
51	.1083660736+036	-.4374863090+036	51	-.4374859095+036	-.1083677803+036
60	-.1900656035+034	-.3751144021+034	60	-.3603406268+034	.1795679164+034
61	-.2237583754+034	.8604775750+033	61	.1068836568+034	.2475925333+034
70	-.5951139626+031	.8646582859+031	70	.7381005914+034	.6913041567+035
71	.4157020528+031	.3618141782+031	71	-.1286734058+036	.2855623933+035
80	.1142251452+029	.2462309552+028	80	-.5703227433+038	-.1741124007+038
81	.1868176451+028	-.5353469025+028	81	.2117849850+038	-.1204607170+039
90	-.5041460872+024	-.5989945208+025	90	.6274816715+041	-.9095455855+041
91	-.2702344660+025	-.1302404232+024	91	.2175133279+042	.1112740605+042
99	-.1487723105+022	-.3178433307+022	99	.1491329670+045	-.1028305405+045
100	-.1414891704+022	.4359043952+021	100	.2886162796+045	.3150855987+045

REAL X = .3000000000+002 IMAGINARY X = .0000000000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.3293438747-001	.0000000000	0	-.5141714996-002	.0000000000
1	-.6239527912-002	.0000000000	1	.3276299697-001	.0000000000
2	.3231043468-001	.0000000000	2	.8418014693-002	.0000000000
3	.1162460036-001	.0000000000	3	-.3135999452-001	.0000000000
4	-.2959802793-001	.0000000000	4	-.1573534675-001	.0000000000
5	-.2050400874-001	.0000000000	5	.2663939050-001	.0000000000
6	.2207989139-001	.0000000000	6	.2550312326-001	.0000000000
7	.3007196167-001	.0000000000	7	-.1558803708-001	.0000000000
8	-.7043910555-002	.0000000000	8	-.3329714180-001	.0000000000
9	-.3406351099-001	.0000000000	9	-.3280343274-002	.0000000000
10	-.1452964640-001	.0000000000	10	.3121959106-001	.0000000000
11	.2389275850-001	.0000000000	11	.2513405702-001	.0000000000
12	.3284742792-001	.0000000000	12	-.1195014735-001	.0000000000
13	.3480098099-002	.0000000000	13	-.3509251314-001	.0000000000
14	-.2971533964-001	.0000000000	14	-.1963311448-001	.0000000000
15	-.3220492641-001	.0000000000	15	.1611383581-001	.0000000000
16	-.3563084325-002	.0000000000	16	.3628407815-001	.0000000000
17	.2828553366-001	.0000000000	17	.2379865016-001	.0000000000
18	.3656287359-001	.0000000000	18	-.8518986306-002	.0000000000
19	.1680867710-001	.0000000000	19	-.3430539993-001	.0000000000
20	-.1471159335-001	.0000000000	20	-.3607803361-001	.0000000000
30	.2805024955-001	.0000000000	30	-.6543068078-001	.0000000000
31	.1919317587-001	.0000000000	31	-.8438191151-001	.0000000000
40	.5454702353-004	.0000000000	40	-.1125486801+002	.0000000000
41	.2315151304-004	.0000000000	41	-.2514671280+002	.0000000000
50	.2690163719-008	.0000000000	50	-.1525515723+006	.0000000000
51	.8621656198-009	.0000000000	51	-.4619182927+006	.0000000000
60	.1152590392-013	.0000000000	60	-.2752553256+011	.0000000000
61	.2997924929-014	.0000000000	61	-.1035606925+012	.0000000000
70	.7455913894-020	.0000000000	70	-.3503905587+017	.0000000000
71	.1638582604-020	.0000000000	71	-.1567246504+018	.0000000000
80	.1015241324-026	.0000000000	80	-.2197658363+024	.0000000000
81	.1935577554-027	.0000000000	81	-.1136329329+025	.0000000000
90	.3649576412-034	.0000000000	90	-.5348590195+031	.0000000000
91	.6150915810-035	.0000000000	91	-.3134637311+032	.0000000000
99	.2677743510-041	.0000000000	99	-.6560775885+038	.0000000000
100	.4088859674-042	.0000000000	100	-.4249612402+039	.0000000000

REAL X = .3000000000+002 IMAGINARY X = -.1000000000-002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.3293440373-001	-.6239529311-005	0	-.5141718659-002	.3276300234-004
1	-.6239532109-002	.3251842424-004	1	.3276301307-001	.7325916367-005
2	.3231045041-001	.9470573291-005	2	.8418019938-002	-.3192120066-004
3	.1162460712-001	-.3076049286-004	3	-.3136000957-001	-.1259934969-004
4	-.2959804185-001	-.1655760801-004	4	-.1573535540-001	.2873744121-004
5	-.2050401950-001	.2549723005-004	5	.2663940267-001	.2106322849-004
6	.2207990106-001	.2565598767-004	6	.2550313611-001	-.2068866474-004
7	.3007197624-001	-.1406070350-004	7	-.1558804340-001	-.2965993791-004
8	-.7043912722-002	-.3218513980-004	8	-.3329715731-001	.5598895082-005
9	-.3406352617-001	-.4310594052-005	9	-.3280345823-002	.3220369881-004
10	-.1452965374-001	.2873597802-004	10	.3121960428-001	.1472752906-004
11	.2389276790-001	.2408675339-004	11	.2513406845-001	-.2116597105-004
12	.3284744182-001	-.9658874153-005	12	-.1195015128-001	-.3031245843-004
13	.3480100528-002	-.3122338624-004	13	-.3509252699-001	-.4426359600-005
14	-.2971535042-001	-.1833777042-004	14	-.1963312285-001	.2527595899-004
15	-.3220493864-001	.1253938023-004	15	.1611384078-001	.2822716375-004
16	-.3563086574-002	.3018584876-004	16	.3628409066-001	.4447142478-005
17	.2828554231-001	.2053440685-004	17	.2379865874-001	-.2200489037-004
18	.3656288510-001	-.5129047476-005	18	-.8518987974-002	-.2919401116-004
19	.1680868281-001	-.2535709124-004	19	-.3430540936-001	-.1435128174-004
20	-.1471159637-001	-.2710679484-004	20	-.3607804353-001	.9050777176-005
30	.2805024937-001	-.8857073946-005	30	-.6543067906-001	-.1895122982-004
31	.1919317515-001	-.7577528734-005	31	-.8438190637-001	-.2457668991-004
40	.5454700276-004	-.4957784642-007	40	-.1125486304+002	-.1014022039-001
41	.2315150321-004	-.2213490260-007	41	-.2514670051+002	-.2395052544-001
50	.2690161373-008	-.3621439607-011	50	-.1525514256+006	-.2076656006+003
51	.8621648204-009	-.1195742969-011	51	-.4619178215+006	-.6481065656+003
60	.1152588691-013	-.2005387355-016	60	-.2752548874+011	-.4850960033+008
61	.2997920307-014	-.5330189795-017	61	-.1035605205+012	-.1864997903+009
70	.7455897561-020	-.1575853875-022	70	-.3503897414+017	-.7496679289+014
71	.1638578887-020	-.3523313081-023	71	-.1567242723+018	-.3410998206+015
80	.1015238261-026	-.2513749994-029	80	-.2197651367+024	-.5502864969+021
81	.1935571542-027	-.4861829717-030	81	-.1136325608+025	-.2886197751+022
90	.3649561976-034	-.1033362439-036	90	-.5348568024+031	-.1530058083+029
91	.6150890865-035	-.1763293242-037	91	-.3134623996+032	-.9078015549+029
99	.2677730402-041	-.8427654185-044	99	-.6560742386+038	-.2084552731+036
100	.4088839210-042	-.1301158632-044	100	-.4249590227+039	-.1365092655+037

REAL X = .3000000000+002 IMAGINARY X = -.1000000000-001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.3293601340-001	-.6239667805-004	0	-.5142081296-002	.3276353367-003
1	-.6239947594-002	.3251894920-003	1	.3276460707-001	.7326072050-004
2	.3231200787-001	.9470762541-004	2	.8418539197-002	-.3192171120-003
3	.1162527638-001	-.3076097782-003	3	-.3136149963-001	-.1259958700-003
4	-.2959941976-001	-.1655790443-003	4	-.1573621183-001	.2873788515-003
5	-.2050508476-001	.2549761287-003	5	.2664680787-001	.2106358949-003
6	.2208085835-001	.2565641043-003	6	.2550440789-001	-.2068896247-003
7	.3007341859-001	-.1406089056-003	7	-.1558866913-001	-.2966040860-003
8	-.7044127292-002	-.3218563135-003	8	-.3329869215-001	.5598948691-004
9	-.3406502949-001	-.4310687567-004	9	-.3280598237-002	.3220417061-003
10	-.1453037989-001	.2873637898-003	10	.3122091218-001	.1472776670-003
11	.2389369765-001	.2408710846-003	11	.2513519997-001	-.2116624720-003
12	.3284881782-001	-.9658981231-004	12	-.1195054025-001	-.3031287715-003
13	.3480340996-002	-.3122379153-003	13	-.3509389820-001	-.4426440368-004
14	-.2971641760-001	-.1833801780-003	14	-.1963395134-001	.2527626443-003
15	-.3220614907-001	.1253951405-003	15	.1611433257-001	.2822751047-003
16	-.3563309258-002	.3018619143-003	16	.3628532925-001	.4447208978-004
17	.2828639864-001	.2053463817-003	17	.2379950887-001	-.2200511921-003
18	.3656402414-001	-.5129089729-004	18	-.8519153082-002	-.2919430885-003
19	.1680924722-001	-.2535732731-003	19	-.3430634314-001	-.1435142285-003
20	-.1471189531-001	-.2710703148-003	20	-.3607902586-001	.9050853182-004
30	.2805023232-001	-.8857101013-004	30	-.6543050856-001	-.1895114054-003
31	.1919310303-001	-.7577540548-004	31	-.8438139830-001	-.2457653396-003
40	.5454494631-004	-.4957732703-006	40	-.1125437151+002	-.1014004896+000
41	.2315052958-004	-.2213463858-006	41	-.2514548461+002	-.2395008369+000
50	.2689929195-008	-.3621343470-010	50	-.1525368965+006	-.2076585128+004
51	.8620856892-009	-.1195709071-010	51	-.4618711732+006	-.6480831911+004
60	.1152420350-013	-.2005294707-015	60	-.2752115041+011	-.4850692447+009
61	.2997462706-014	-.5329932000-016	61	-.1035434901+012	-.1864890725+010
70	.7454280613-020	-.1575744357-021	70	-.3503088360+017	-.7496080388+015
71	.1638210933-020	-.3523059301-022	71	-.1566868415+018	-.3410716581+016
80	.1014934993-026	-.2513507532-028	80	-.2196958786+024	-.5502269048+022
81	.1934976340-027	-.4861346688-029	81	-.1135957241+025	-.2885876415+023
90	.3648132870-034	-.1033231126-035	90	-.5846373175+031	-.1529843312+030
91	.6148421433-035	-.1763063420-036	91	-.3133305927+032	-.9076710340+030
99	.2676432832-041	-.8426324610-043	99	-.6557426310+038	-.2084193414+037
100	.4086813348-042	-.1300948682-043	100	-.4247395077+039	-.1364852248+038

REAL X = .3000000000+002 IMAGINARY X = -.1000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.3309711217-001	-.6253525879-003	0	-.5178383900-002	.3281669277-002
1	-.6281539231-002	.3257147006-002	1	.3292413667-001	.7341649788-003
2	.3246787952-001	.9489698464-003	2	.8470516265-002	-.3197279005-002
3	.1169226516-001	-.3080949612-002	3	-.3151062339-001	-.1262333102-002
4	-.2973731836-001	-.1658756219-00[illegible]	4	-.1582193156-001	.2878229897-002
5	-.2061170281-001	.2553591288-002	5	.2676121847-001	.2109970721-002
6	.2217665695-001	.2569870820-002	6	.2563169048-001	-.2071874769-002
7	.3021776872-001	-.1407960380-002	7	-.1565128333-001	-.2970750004-002
8	-.7065593894-002	-.3223480799-002	8	-.3345229400-001	.5604310886-003
9	-.3421547204-001	-.4320044177-003	9	-.3305864562-002	.3225137128-002
10	-.1460305229-001	.2877649181-002	10	.3135179449-001	.1475154094-002
11	.2398673457-001	.2412263053-002	11	.2524843488-001	-.2119387361-002
12	.0298651320-001	-.9669693040-003	12	-.1198946001-001	-.3035476623-002
13	.3504496996-002	-.3126433667-002	13	-.3523110876-001	-.4434520707-003
14	-.2982320275-001	-.1836276628-002	14	-.1971685522-001	.2530682041-002
15	-.3232726584-001	.1255290064-002	15	.1616353949-001	.2826219480-002
16	-.3585591183-002	.3022047048-002	16	.3640925913-001	.4453861008-003
17	.2437207864-001	.2055777732-002	17	.2388456749-001	-.2202801079-002
18	.3667798722-001	-.5133317075-003	18	-.8535673645-002	-.2922408741-002
19	.1686571332-001	-.2538094198-002	19	-.3439976714-001	-.1436553701-002
20	-.1474180524-001	-.2713070143-002	20	-.3617730176-001	.9058456790-003
30	.2804852309-001	-.8859807743-003	30	-.6541347341-001	-.1894221391-002
31	.1918588866-001	-.7578721835-003	31	-.8433061557-001	-.2456094228-002
40	.5433938750-004	-.4952539756-005	40	-.1120526583+002	-.1012291776+001
41	.2305321456-004	-.2210824239-005	41	-.2502402075+002	-.2396393870+001
50	.2666739828-008	-.3611736223-009	50	-.1510866647+006	-.2069505730+005
51	.8541829689-009	-.1192321739-009	51	-.4572153985+006	-.6457486295+005
60	.1135623330-013	-.1996041481-014	60	-.2708858222+011	-.4823982848+010
61	.2951808544-014	-.5304186400-015	61	-.1018456222+012	-.1854193276+011
70	.7293130047-020	-.1564813744-020	70	-.3422520793+017	-.7436345811+016
71	.1601544003-020	-.3497732404-021	71	-.1529598989+018	-.3382629496+017
80	.9847509630-027	-.2489327593-027	80	-.2128089939+024	-.5442883943+023
81	.1875744922-027	-.4813179885-028	81	-.1099333283+025	-.2853857505+024
90	.3506112541-034	-.1020147606-034	90	-.5128479463+031	-.1508462096+031
91	.5903056775-035	-.1740167037-035	91	-.3002477315+032	-.8946785650+031
99	.2547682268-041	-.8293971491-042	99	-.6228760194+038	-.2048457461+038
100	.3885834644-042	-.1280051301-042	100	-.4029868769+039	-.1340945252+039

REAL X = .3000000000+002 IMAGINARY X = -.5000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.3708271431-001	-.3297368785-002	0	-.6082274393-002	.1706058346-001
1	-.7316190244-002	.1693010590-001	1	.3687055266-001	.3862518873-002
2	.3632308945-001	.4977718961-002	2	.9761870018-002	-.1661300498-001
3	.1335453417-001	-.1599984701-001	3	-.3519789172-001	-.6603475354-002
4	-.3314569246-001	-.8658059981-002	4	-.1794675766-001	.1493577927-001
5	-.2325220226-001	.1323746788-001	5	.2974070141-001	.1099325596-001
6	.2454137942-001	.1336839299-001	6	.2878149085-001	-.1072433986-001
7	.3378732408-001	-.7268912224-002	7	-.1719475346-001	-.1543137077-001
8	-.7591851312-002	-.1672035696-001	8	-.3724792104-001	.2867547307-002
9	-.3793030784-001	-.2275006451-002	9	-.3933615193-002	.1670417477-001
10	-.1639999863-001	.1487965538-001	10	.3458105037-001	.7667315534-002
11	.2627994903-001	.1249659257-001	11	.2804420105-001	-.1093521080-001
12	.3638273011-001	-.4965888884-002	12	-.1294677806-001	-.1569040594-001
13	.4099524663-002	-.1612850874-001	13	-.3861232487-001	-.2316262884-002
14	-.3245232207-001	-.9484262185-002	14	-.2175992963-001	.1302732422-001
15	-.3530863146-001	.6440236852-002	15	.1737374117-001	.1455536656-001
16	-.4134016097-002	.1552940130-001	16	.3945720384-001	.2308175803-002
17	.3047784995-001	.1056159155-001	17	.2597482523-001	-.1129389707-001
18	.3947632611-001	-.2618505989-002	18	-.8942113928-002	-.1497580422-001
19	.1824990828-001	-.1297895296-001	19	-.3669261927-001	-.7354891370-002
20	-.1547690121-001	-.1385414245-001	20	-.3858573296-001	.4622314661-002
30	.2800481446-001	-.4462732639-002	30	-.6500934228-001	-.9363307043-002
31	.1900906527-001	-.3803629261-002	31	-.8311432162-001	-.1209255444-001
40	.4940817295-004	-.2413606550-004	40	-.1004322131+002	-.4857122170+001
41	.2072305291-004	-.1073597001-004	41	-.2215531929+002	-.1142704436+002
50	.2121671993-008	-.1691352650-008	50	-.1175177009+006	-.9514307060+005
51	.6688512859-009	-.5558390922-009	51	-.3497151681+006	-.2954385884+006
60	.7504929651-014	-.8893232602-014	60	-.1734437823+011	-.2102727750+011
61	.1907896920-014	-.2350145496-014	61	-.6371308690+011	-.8034556814+011
70	.3706136911-020	-.6562075115-020	70	-.1665106352+017	-.3039697073+017
71	.7880253052-021	-.1457004571-020	71	-.7194801170+017	-.1372959621+018
80	.3357695780-027	-.9710468679-027	80	-.6807785531+023	-.2061666744+024
81	.6069806676-028	-.1862719136-027	81	-.3327413254+024	-.1072035232+025
90	.5716749381-035	-.3653769788-034	90	-.7395387094+030	-.5225316275+031
91	.8549050210-036	-.6174808870-035	91	-.3791703100+031	-.3069177937+032
99	-.7341588418-044	-.2716611106-041	99	.1144449575+037	-.6464866045+038
100	-.8361102602-044	-.4147927283-042	100	.1473273164+038	-.4185003929+039

REAL X = .3000000000+002 IMAGINARY X = -.1000000000+001

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.5056281630-001	-.7727976811-002	0	-.9213994118-002	.3839739833-001
1	-.1088897360-001	.3808396645-001	1	.5021340762-001	.8996243132-002
2	.4934832182-001	.1149589031-001	2	.1419980761-001	-.3733158023-001
3	.1904077029-001	-.3589625818-001	3	-.4764223221-001	-.1513246732-001
4	-.4463152319-001	-.1971445726-001	4	-.2518642414-001	.3343445064-001
5	-.3221844082-001	.2954266532-001	5	.3976071770-001	.2490008537-001
6	.3247053008-001	.3014140144-001	6	.3944517653-001	-.2382912759-001
7	.4583849466-001	-.1602738956-001	7	-.2234296242-001	-.3464544881-001
8	-.9309893630-002	-.3738307501-001	8	-.5002747548-001	.6153659887-002
9	-.5040290474-001	-.5308499942-002	9	-.6090583320-002	.3718473789-001
10	-.2246457274-001	.3296187616-001	10	.4539024739-001	.1724209984-001
11	.3392690005-001	.2783261310-001	11	.3742662301-001	-.2407073335-001
12	.4773583904-001	-.1078116391-001	12	-.1611389140-001	-.3472045021-001
13	.6107959415-002	-.3548242104-001	13	-.4987657561-001	-.5277973580-002
14	-.4118148554-001	-.2093453658-001	14	-.2856704196-001	.2848090954-001
15	-.4519873729-001	.1394267642-001	15	.2137571781-001	.3185949088-001
16	-.5951753797-002	.3377086090-001	16	.4953460394-001	.5139483097-002
17	.3742218383-001	.2294605212-001	17	.3286363287-001	-.2439808111-001
18	.4867115579-001	-.5576486693-002	18	-.1028849146-001	-.3229570731-001
19	.2276795261-001	-.2781738116-001	19	-.4421245012-001	-.1581158515-001
20	-.1790158595-001	-.2956045649-001	20	-.4643949391-001	.9849713775-002
30	.2783967877-001	-.9131111443-002	30	-.6385389480-001	-.1806254120-001
31	.1843242374-001	-.7695162753-002	31	-.7949230425-001	-.2303665691-001
40	.3463809872-004	-.4442541643-004	40	-.6747183678+001	-.8516247924+001
41	.1379664671-004	-.1952801676-004	41	-.1408382420+002	-.1978532504+002
50	.6216261049-009	-.2713715716-008	50	-.3070283218+005	-.1439969377+006
51	.1637179105-009	-.8774065547-009	51	-.7465414687+005	-.4393893371+006
60	-.2006972051-014	-.1180611377-013	60	.5020614470+010	-.2598902230+011
61	-.6387406123-015	-.3050076447-014	61	.2263033674+011	-.9693885727+011
70	-.4014157588-020	-.6667600054-020	70	.1804071894+017	-.2827864442+017
71	-.9357339819-021	-.1432723160-020	71	.8526353325+017	-.1233651947+018
80	-.8370300450-027	-.6584615676-027	80	.1681001628+024	-.1247956435+024
81	-.1640550807-027	-.1198053900-027	81	.8913699482+024	-.6133079348+024
90	-.3663130424-034	-.1178391581-034	90	.4869249974+031	-.1410878601+031
91	-.6243140310-035	-.1768163816-035	91	.2879665592+032	-.7251347366+031
99	-.2836579527-041	.1274267512-043	99	.6185809253+038	.2133704112+037
100	-.4330357517-042	.1706484020-043	100	.3997360583+039	.2780525511+038

REAL X = .3000000000+002 IMAGINARY X = -.3000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.3231894805+000	-.8382800580-001	0	-.8391911496-001	.3215406630+000
1	-.9430877436-001	.3177074302+000	1	.3193586824+000	.9416294809-001
2	.3107063600+000	.1143504368+000	2	.1146064801+000	-.3090556317+000
3	.1436934800+000	-.2937105535+000	3	-.2953467941+000	-.1432710312+000
4	-.2707244541+000	-.1788847087+000	4	-.1795285209+000	.2691335203+000
5	-.2187932770+000	.2325351612+000	5	.2340274259+000	.2178791505+000
6	.1828526810+000	.2553604238+000	6	.2565791684+000	-.1815394337+000
7	.2862888646+000	-.1151294188+000	7	-.1161551337+000	-.2847590092+000
8	-.3542604417-001	-.2981824695+000	8	-.2999847292+000	.3481937303-001
9	-.2894351534+000	-.5415527614-001	9	-.5410669236-001	.2874638046+000
10	-.1426720710+000	.2460743164+000	10	.2480306571+000	.1420456294+000
11	.1734988644+000	.2148136687+000	11	.2161643814+000	-.1718260952+000
12	.2580648910+000	-.6984455507-001	12	-.7000257822-001	-.2560661611+000
13	.4518871515-001	-.2511487067+000	13	-.2535372874+000	-.4529966301-001
14	-.1954181313+000	-.1499246050+000	14	-.1509851337+000	.1931076932+000
15	-.2178733506+000	.8895312499-001	15	.9054780932-001	.2156714853+000
16	-.3658941178-001	.2186420798+000	16	.2215594071+000	.3681026895-001
17	.1542109924+000	.1451869270+000	17	.1467454761+000	-.1514508609+000
18	.1979501541+000	-.3312125743-001	18	-.3455710759-001	-.1948027101+000
19	.9155482778-001	-.1614598958+000	19	-.1651561346+000	-.9064688068-001
20	-.5932533964-001	-.1629141257+000	20	-.1663526751+000	.5687078691-001
30	.2302693375-001	-.3403039435-001	30	-.6012638035-001	-.3505338992-001
31	.9863681476-002	-.2546352527-001	31	-.5447026303-001	-.3848597365-001
40	-.6635760736-004	-.2995345758-004	40	.7418848388+001	-.3527026102+001
41	-.2967561187-004	-.8639728900-005	41	.1763902235+002	-.5290666344+001
50	-.2325954461-008	.2823722005-008	50	.6659668499+005	.8878840238+005
51	-.6319904117-009	.9918827593-009	51	.1661616407+006	.2911042218+006
60	.7616559149-014	.1434588705-013	60	-.1021827707+011	.1647130914+011
61	.2401559245-014	.3496087379-014	61	-.4514052886+011	.5692469325+011
70	.1094524392-019	-.3797782251-021	70	-.2354888075+017	-.2655535817+016
71	.2392189086-020	-.3476275759-021	71	-.1029424774+018	-.2330740030+017
80	.6810852096-027	-.1402027623-026	80	-.5127068229+023	-.1327206449+024
81	.1009904167-027	-.2809145485-027	81	-.1890587847+024	-.7075620363+024
90	-.3363793205-034	-.4805266887-034	90	.2126729313+031	-.2534807366+031
91	-.6520265468-035	-.7491725092-035	91	.1389806837+032	-.1339530789+032
99	-.4487865665-041	-.6983832838-043	99	.3881652251+038	.2882293571+037
100	-.6858888578-042	.6108590648-043	100	.2469416662+039	.4460992794+038

REAL X = .3000000000+002 IMAGINARY X = -.1000000000+002

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.3094546009+003	-.1597784383+003	0	-.1597784380+003	.3094545995+003
1	-.1674642917+003	.3015667003+003	1	.3015667017+003	.1674642919+003
2	.2853358136+003	.1818955125+003	2	.1818955124+003	-.2853358121+003
3	.2011698881+003	-.2600155827+003	3	-.2600155843+003	-.2011698881+003
4	-.2248890463+003	-.2224168927+003	4	-.2224168929+003	.2248890447+003
5	-.2418724102+003	.1797230075+003	5	.1797230091+003	.2418724098+003
6	.1253016201+003	.2551195201+003	6	.2551195209+003	-.1253016185+003
7	.2575745045+003	-.6393718407+002	7	-.6393718559+002	-.2575745033+003
8	.1974845025+000	-.2452550773+003	8	-.2452550789+003	-.1974857986+000
9	-.2157804242+003	-.6110933296+002	9	-.6110933207+002	.2157804221+003
10	-.1115815531+003	.1694244769+003	10	.1694244794+003	.1115815533+003
11	.1099049057+003	.1444146272+003	11	.1444146279+003	-.1099049028+003
12	.1542005737+003	-.4450025576+002	12	-.4450025852+002	-.1542005718+003
13	.1687058855+002	-.1392396756+003	13	-.1392396788+003	-.1687059067+002
14	-.1029406846+003	-.6372882260+002	14	-.6372882187+002	.1029406801+003
15	-.8794762555+002	.5394280146+002	15	.5394280659+002	.8794762403+002
16	.4427124338+001	.8663186404+002	16	.8663186855+002	-.4427119726+001
17	.6374196351+002	.3328369497+002	17	.3328369278+002	-.6374195593+002
18	.5085264411+002	-.2937429709+002	18	-.2937430655+002	-.5085264153+002
19	.3572961374+001	-.4707368642+002	19	-.4707369568+002	-.3572969588+001
20	-.2831354160+002	-.2430846108+002	20	-.2430845926+002	.2831352580+002
30	-.8752294514+000	.5039368538+000	30	.5045598981+000	.8753351889+000
31	-.2660704767+000	.5351238704+000	31	.5358555250+000	.2660284898+000
40	-.9218645537-003	-.7168715791-003	40	.3345718507+000	-.2538000010+000
41	-.4872103131-003	-.1073857452-003	41	.9386851924+000	-.1742582039+000
50	.6652356626-007	-.2545660069-007	50	-.4473561260+004	-.2572608302+004
51	.1714608798-007	-.1620777774-007	51	-.9174116865+004	-.1210316226+005
60	-.2325762448-012	.3785755741-012	60	.2149393421+009	.6222082916+009
61	-.2195947165-013	.1184681204-012	61	-.9308353116+008	.2377546005+010
70	.3638881076-019	-.4432699079-018	70	.9177816590+014	-.5399578238+015
71	-.2752635591-019	-.9853067027-019	71	.1174057687+016	-.2026871829+016
80	.2669026915-025	.9276650660-025	80	-.1131474732+022	.1848533477+022
81	.1131448797-025	.1563842107-025	81	-.8352290223+022	.6670352826+022
90	-.3055966543-032	-.4721734786-032	90	.2464903330+029	-.2140810433+029
91	-.7890970190-033	-.6068660492-033	91	.1696868008+030	-.6647666242+029
99	.3000622383-039	.5688454520-039	99	-.1799934992+036	.1840505539+036
100	.7565807014-040	.7020267868-040	100	-.1423004405+037	.7023356793+036

REAL X = .3000000000+002 IMAGINARY X = -.1000000000+003

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.1752924115+041	-.1275384649+042	0	-.1275384649+042	.1752924115+041
1	-.1264166329+042	.1701739912+041	1	.1701739912+041	.1264166329+042
2	.1601706530+041	.1241996187+042	2	.1241996187+042	-.1601706530+041
3	.1209398210+042	-.1457350229+041	3	-.1457350229+041	-.1209398210+042
4	-.1275111906+041	-.1167136151+042	4	-.1167136151+042	.1275111906+041
5	-.1116187704+042	.1062958640+041	5	.1062958640+041	.1116187704+042
6	.8299124635+040	.1057711487+042	6	.1057711487+042	-.8299124635+040
7	.9930080392+041	-.5855310252+040	7	-.5855310252+040	-.9930080392+041
8	-.3393773521+040	-.9234763342+041	8	-.9234763342+041	.3393773521+040
9	-.8505675325+041	.1005153552+040	9	.1005153552+040	.8505675325+041
10	-.1229358690+040	.7757378997+041	10	.7757378997+041	.1229358690+040
11	.7004028950+041	.3241620249+040	11	.3241620249+040	-.7004028950+041
12	.4979090174+040	-.6258944283+041	12	-.6258944283+041	-.4979090174+040
13	-.5534231475+041	-.6406240128+040	13	-.6406240128+040	.5534231475+041
14	-.7504817386+040	.4840473601+041	14	.4840473601+041	.7504817386+040
15	.4186498214+041	.8273042872+040	15	.8273042872+040	-.4186498214+041
16	.8723899999+040	-.3579231633+041	16	-.3579231633+041	-.8723899999+040
17	-.3023642205+041	-.8882723897+040	17	-.8882723897+040	.3023642205+041
18	-.8784332064+040	.2522769823+041	18	.2522769823+041	.8784332064+040
19	.2077834021+041	.8469945585+040	19	.8469945585+040	-.2077834021+041
20	.7984136676+040	-.1688408693+041	20	-.1688408693+041	-.7984136676+040
30	-.1639298015+040	.7717322318+039	30	.7717322318+039	.1639298015+040
31	.4774402034+039	.1279407986+040	31	.1279407986+040	-.4774402034+039
40	.6317359113+038	.3424091694+038	40	.3424091693+038	-.6317359114+038
41	.2812342854+038	-.4082264644+038	41	-.4082264643+038	-.2812342855+038
50	.1075022664+036	-.1182945378+037	50	-.1182944732+037	-.1075023743+036
51	-.7338034437+036	-.1631801381+036	51	-.1631798414+036	.7338044310+036
60	-.8332326883+034	.9134640517+033	60	.9087879470+033	.8421642903+034
61	-.1872104674+033	.4875487981+034	61	.4723099384+034	.2014910752+033
70	.3243888682+031	.2575273219+032	70	-.2760138331+035	-.2402933779+034
71	.1392558439+032	.5491297639+030	71	-.3918060648+034	-.5129375888+035
80	.3633979378+029	.7376461350+027	80	-.7810054066+036	-.1893902770+038
81	.3587903640+028	-.1769779364+029	81	.3707276899+038	-.8259511121+037
90	.7179869312+025	-.2264739603+026	90	.2636758224+041	-.8479196055+040
91	-.9616801903+025	-.5250926053+025	91	.2877860557+041	.5239315274+041
99	.8497965186+022	-.1508152982+023	99	.3191604107+044	-.1756795438+044
100	-.5647850945+022	-.4915084915+022	100	.5430772419+044	.6386489863+044

REAL X = .5000000000+002 IMAGINARY X = .0000000000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.5247497074-002	.0000000000	0	-.1929932057-001	.0000000000
1	-.1940427051-001	.0000000000	1	.4861510663-002	.0000000000
2	.4083240843-002	.0000000000	2	.1959101121-001	.0000000000
3	.1981259460-001	.0000000000	3	-.2902409542-002	.0000000000
4	-.1309477600-002	.0000000000	4	-.1999734855-001	.0000000000
5	-.2004830056-001	.0000000000	5	-.6971131965-003	.0000000000
6	-.3101143524-002	.0000000000	6	.1984398364-001	.0000000000
7	.1924200195-001	.0000000000	7	.5856548943-002	.0000000000
8	.8873749108-002	.0000000000	8	-.1808701896-001	.0000000000
9	-.1622492725-001	.0000000000	9	-.1200613539-001	.0000000000
10	-.1503922146-001	.0000000000	10	.1352468751-001	.0000000000
11	.9908454236-002	.0000000000	11	.1768650414-001	.0000000000
12	.1959711043-001	.0000000000	12	-.5388895605-002	.0000000000
13	-.1098990300-003	.0000000000	13	-.2038095195-001	.0000000000
14	-.1965645539-001	.0000000000	14	-.5616818446-002	.0000000000
15	-.1129084539-001	.0000000000	15	.1712319725-001	.0000000000
16	.1265613175-001	.0000000000	16	.1623320074-001	.0000000000
17	.1964389234-001	.0000000000	17	-.6409284759-002	.0000000000
18	.1094592888-002	.0000000000	18	-.2071970007-001	.0000000000
19	-.1883389360-001	.0000000000	19	-.8923293294-002	.0000000000
20	-.1578502990-001	.0000000000	20	.1375953130-001	.0000000000
30	-.1494673454-002	.0000000000	30	-.2241226812-001	.0000000000
31	-.1870384803-001	.0000000000	31	-.1284270942-001	.0000000000
40	-.2606336952-001	.0000000000	40	.4978797221-004	.0000000000
41	-.2182508230-001	.0000000000	41	.1538890151-001	.0000000000
50	.1882910737-001	.0000000000	50	-.4190000150-001	.0000000000
51	.1381865849-001	.0000000000	51	-.5199406389-001	.0000000000
60	.1339715305-003	.0000000000	60	-.2199701186+001	.0000000000
61	.6821076931-004	.0000000000	61	-.4105673109+001	.0000000000
70	.5341552371-007	.0000000000	70	-.3768476574+004	.0000000000
71	.2170135398-007	.0000000000	71	-.9019494907+004	.0000000000
80	.2925097307-011	.0000000000	80	-.5419583184+008	.0000000000
81	.1000688737-011	.0000000000	81	-.1552882215+009	.0000000000
90	.3333197496-016	.0000000000	90	-.3977400210+013	.0000000000
91	.9900233244-017	.0000000000	91	-.1318185287+014	.0000000000
99	.3828251339-021	.0000000000	99	-.3036620168+018	.0000000000
100	.1019012263-021	.0000000000	100	-.1125692891+019	.0000000000

REAL X = .5000000000+002 IMAGINARY X = -.1000000000-002

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.5247499310-002	-.1940427377-004	0	-.1929933032-001	.4861511342-005
1	-.1940428030-001	.4471326867-005	1	.4861512702-002	.1949378427-004
2	.4083242487-002	.1964926825-004	2	.1959102106-001	-.3686050472-005
3	.1981260450-001	-.2498233558-005	3	-.2902410589-002	-.1982320727-004
4	-.1309477851-002	-.1994354565-004	4	-.1999735848-001	.9026747049-006
5	-.2004831045-001	-.1096318778-005	5	-.6971139391-003	.1991369823-004
6	-.3101150441-002	.1961414296-004	6	.1984399333-001	.3475271602-005
7	.1924201123-001	.6179869963-005	7	.5856552184-002	-.1890693885-004
8	.8873753770-002	-.1764472990-004	8	-.1808702756-001	-.9112213941-005
9	-.1622493483-001	-.1211873660-004	9	-.1200614149-001	.1568579432-004
10	-.1503922891-001	.1291630049-004	10	.1352469368-001	.1498156911-004
11	.9908458580-002	.1741725328-004	11	.1768651271-001	-.9279927872-005
12	.1959711970-001	-.4813206165-005	12	-.5388897749-002	-.1908762001-004
13	-.1098986884-003	-.1962788517-004	13	-.2038096139-001	-.3177711053-006
14	-.1965646478-001	-.5787038727-005	14	-.5616821393-002	.1869590923-004
15	-.1129085081-001	.1604338771-004	15	.1712320477-001	.1109624333-004
16	.1265613708-001	.1559393256-004	16	.1623320821-001	-.1160391063-004
17	.1964390107-001	-.5584331223-005	17	-.6409287201-002	-.1854054599-004
18	.1094593745-002	-.1922794980-004	18	-.2071970898-001	-.1464201578-005
19	-.1883390142-001	-.8628151633-005	19	-.8923297420-002	.1715038513-004
20	-.1578503671-001	.1220418266-004	20	.1375953673-001	.1470229853-004
30	-.1494673567-002	-.1780704581-004	30	-.2241227517-001	.6046514744-006
31	-.1870385346-001	-.1047579036-004	31	-.1284271358-001	.1419293549-004
40	-.2606337399-001	-.9743866847-006	40	.4978767379-004	.1534907201-004
41	-.2182508585-001	.7730300842-005	41	.1538890365-001	.1287688992-004
50	.1882910728-001	-.5010448991-005	50	-.4190000088-001	-.1009406206-004
51	.1381865816-001	-.4457702596-005	51	-.5199406206-001	-.1217382442-004
60	.1339715013-003	-.9255506183-007	60	-.2199700646+001	-.1466031543-002
61	.6821075281-004	-.4939017324-007	61	-.4105671998+001	-.2891333165-002
70	.5341549839-007	-.5308037152-010	70	-.3768474637+004	-.3743627011+001
71	.2170134308-007	-.2216557056-010	71	-.9019490011+004	-.9219594298+001
80	.2925095052-011	-.3679466058-014	80	-.5419578733+008	-.6857487084+005
81	.1000687933-011	-.1283967452-014	81	-.1552880889+009	-.2004767915+006
90	.3333193803-016	-.5009730389-019	90	-.3977395563+013	-.6022530058+010
91	.9900221919-017	-.1511554024-019	91	-.1318183698+014	-.2027720062+011
99	.3828245805-021	-.6560922326-024	99	-.3036615569+018	-.5244418252+015
100	.1019010749-021	-.1769845719-024	100	-.1125691141+019	-.1970236572+016

REAL X = .5000000000+002 IMAGINARY X = -.1000000000-001

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.5247720642-002	-.1940459664-003	0	-.1930029527-001	.4861578627-004
1	-.1940524890-001	.4471387622-004	1	.4861714558-002	.1949410809-003
2	.4083405218-002	.1964959359-003	2	.1959199579-001	-.3686098132-004
3	.1981358548-001	-.2498261532-004	3	-.2902514320-002	-.1982353390-003
4	-.1309502663-002	-.1994387215-003	4	-.1999834223-001	.9026764570-005
5	-.2004928877-001	-.1096349521-004	5	-.6971874622-003	.1991402163-003
6	-.3101340207-002	.1961445840-003	6	.1984495223-001	.3475340501-004
7	.1924203014-001	.6179981533-004	7	.5856873028-002	-.1890723938-003
8	.8874215311-002	-.1764500644-003	8	-.1808787905-001	-.9112370852-004
9	-.1622568506-001	-.1211893882-003	9	-.1200674546-001	.1568603585-003
10	-.1503996618-001	.1291649467-003	10	.1352530403-001	.1498181297-003
11	.9908888669-002	.1741753065-003	11	.1768736034-001	-.9280062099-004
12	.1959803876-001	-.4813269117-004	12	-.5389110062-002	-.1908791766-003
13	-.1098648686-003	-.1962818474-003	13	-.2038189618-001	-.3177874473-005
14	-.1965734459-001	-.5787136757-004	14	-.5617113091-002	.1869618797-003
15	-.1129138782-001	.1604362036-003	15	.1712394903-001	.1109641753-003
16	.1265666452-001	.1559416778-003	16	.1623394730-001	-.1160407242-003
17	.1964476549-001	-.5584402074-004	17	-.6409528919-002	-.1854081693-003
18	.1094678588-002	-.1922822237-003	18	-.2072059141-001	-.1464232308-004
19	-.1883467491-001	-.8628280668-004	19	-.8923705945-002	.1715062032-003
20	-.1578571097-001	.1220434280-003	20	.1376007430-001	.1470250582-003
30	-.1494684772-002	-.1780722988-003	30	-.2241297308-001	.6046539292-005
31	-.1870439119-001	-.1047589675-003	31	-.1284312515-001	.1419307444-003
40	-.2606381586-001	-.9743868097-005	40	.4975813058-004	.1534915851-003
41	-.2182543736-001	.7730345669-004	41	.1538911521-001	.1287695170-003
50	.1882909856-001	-.5010460064-004	50	-.4189993942-001	-.1009402956-003
51	.1381862540-001	-.4457708177-004	51	-.5199388148-001	-.1217377324-003
60	.1339686075-003	-.9255452004-006	60	-.2199647221+001	-.1466017462-001
61	.6820911917-004	-.4938984458-006	61	-.4105562057+001	-.2891303098-001
70	.5341299116-007	-.5307960902-009	70	-.3768282926+004	-.3743558433+002
71	.2170026464-007	-.2216523182-009	71	-.9019005295+004	-.9219416603+002
80	.2924871830-011	-.3679377338-013	80	-.5419138077+008	-.6857291716+006
81	.1000608408-011	-.1283935151-013	81	-.1552749567+009	-.2004708611+007
90	.3332828204-016	-.5009554271-018	90	-.3976935546+013	-.6022289078+011
91	.9899100811-017	-.1511499107-018	91	-.1318026427+014	-.2027636442+012
99	.3827697892-021	-.6560619119-023	99	-.3036160271+018	-.5244148042+016
100	.1018860916-021	-.1769761636-023	100	-.1125517850+019	-.1970132408+017

REAL X = .5000000000+002 IMAGINARY X = -.1000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.5269869051-002	-.1943689957-002	0	-.1939687128-001	.4868309851-003
1	-.1950219049-001	.4477465475-003	1	.4881913704-002	.1952650666-002
2	.4099688573-002	.1968214389-002	2	.1968955061-001	-.3690865865-003
3	.1991176406-001	-.2501059615-003	3	-.2912892702-002	-.1985621283-002
4	-.1311982726-002	-.1997653812-002	4	-.2009679798-001	.9028511211-004
5	-.2014720086-001	-.1099425983-003	5	-.7045489677-003	.1994637720-002
6	-.3120335359-002	.1964601804-002	6	.1994092019-001	.3482234306-003
7	.1933489532-001	.6191144563-003	7	.5888986404-002	-.1893730753-002
8	.8920409286-002	-.1767267319-002	8	-.1817309511-001	-.9128070063-003
9	-.1630076656-001	-.1213917087-002	9	-.1206719332-001	.1571019957-002
10	-.1511375323-001	.1293592138-002	10	.1358638602-001	.1500621172-002
11	.9951928980-002	.1744528110-002	11	.1777219210-001	-.9293490672-003
12	.1969001729-001	-.4819566795-003	12	-.5410355352-002	-.1911769681-002
13	-.1064777613-003	-.1965815548-002	13	-.2047544720-001	-.3194228367-004
14	-.1974539198-001	-.5796944656-003	14	-.5646307410-002	.1872407523-002
15	-.1134513133-001	.1606689539-002	15	.1719843001-001	.1111384612-002
16	.1270944640-001	.1561770089-002	16	.1630791326-001	-.1162025851-002
17	.1973127087-001	-.5591490017-003	17	-.6433716450-002	-.1856792247-002
18	.1103170772-002	-.1925549156-002	18	-.2080889726-001	-.1467306898-003
19	-.1891207797-001	-.8641189878-003	19	-.8964588766-002	.1717414926-002
20	-.1585318456-001	.1222036318-002	20	.1381386683-001	.1472324271-002
30	-.1495806268-002	-.1782564213-002	30	-.2248280041-001	.6048997055-004
31	-.1875819130-001	-.1048653945-002	31	-.1288430204-001	.1420697365-002
40	-.2610801676-001	-.9743988434-004	40	.4680542757-004	.1535781044-002
41	-.2186059618-001	.7734829482-003	41	.1541027922-001	.1288313000-002
50	.1882822516-001	-.5011567316-003	50	-.4189379699-001	-.1009078074-002
51	.1381534796-001	-.4458266210-003	51	-.5197582925-001	-.1216865555-002
60	.1336792923-003	-.9250034543-005	60	-.2194307656+001	-.1464609882+000
61	.6804579847-004	-.4935698169-005	61	-.4094574479+001	-.2888297545+000
70	.5316243410-007	-.5300338619-008	70	-.3749130784+004	-.3736704955+003
71	.2159249610-007	-.2213137068-008	71	-.8970584082+004	-.9201658970+003
80	.2902575359-011	-.3670511113-012	80	-.5375138910+008	-.6837773398+007
81	.9926654850-012	-.1280707173-012	81	-.1539637919+009	-.1998783964+008
90	.3296330367-016	-.4991959705-017	90	-.3931030138+013	-.5998222414+012
91	.9787187603-017	-.1506012981-017	91	-.1302333212+014	-.2019285547+013
99	.3773030320-021	-.6530338124-022	99	-.2990752444+018	-.5217171779+017
100	.1003912386-021	-.1761364691-022	100	-.1108236375+019	-.1959733717+018

REAL X = .5000000000+002 IMAGINARY X = -.5000000000+000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.5816064493-002	-.1011494599-001	0	-.2178758069-001	.2516570284-002
1	-.2190186756-001	.2313128495-002	1	.5379853186-002	.1016091529-001
2	.4500696099-002	.1024058002-001	2	.2210424366-001	-.1903748737-002
3	.2234165261-001	-.1284672643-002	3	-.3167746282-002	-.1032916909-001
4	-.1371379124-002	-.1038914102-001	4	-.2253322441-001	.4533752570-003
5	-.2256977759-001	-.5876539902-003	5	-.8886445479-003	.1037021273-001
6	-.3592182751-002	.1021022152-001	6	.2231492997-001	.1825888599-002
7	.2160935954-001	.3232707406-002	7	.6685199374-002	-.9837516144-002
8	.1006464524-001	-.9175684676-002	8	-.2028006110-001	-.4756794753-002
9	-.1815652811-001	-.6317911881-002	9	-.1356355921-001	.8151422330-002
10	-.1693943038-001	.6706130310-002	10	.1509545165-001	.7802489144-002
11	.1101451580-001	.9063066488-002	11	.1987024778-001	-.4811310004-002
12	.2196391510-001	-.2486874878-002	12	-.5933921801-002	-.9924076447-002
13	-.2122321018-004	-.1019657100-001	13	-.2278729659-001	-.1798987083-003
14	-.2192031851-001	-.3018837497-002	14	-.6369016612-002	.9703901761-002
15	-.1267378277-001	.8318695193-002	15	.1903735932-001	.5770662357-002
16	.1401178814-001	.8097343213-002	16	.1813522466-001	-.6008429019-002
17	.2186720113-001	-.2882514489-002	17	-.7029656182-002	-.9616148478-002
18	.1313897687-002	-.9961846497-002	18	-.2298818566-001	-.7714045255-003
19	-.2082130377-001	-.4478792945-002	19	-.9974192425-002	.8875270643-002
20	-.1751795963-001	.6306347381-002	20	.1513987328-001	.7615632503-002
30	-.1523573787-002	-.9137762540-002	30	-.2419779624-001	.3055225073-003
31	-.2007909329-001	-.5373187742-002	31	-.1389483294-001	.7273291939-002
40	-.2718744719-001	-.4872027000-003	40	-.2378264960-004	.7784259540-002
41	-.2271773096-001	.3922111290-002	41	.1592813809-001	.6516689824-002
50	.1880521937-001	-.2519207268-002	50	-.4174746075-001	-.5006090150-002
51	.1373517303-001	-.2235881346-002	51	-.5154197631-001	-.6022500589-002
60	.1267043985-003	-.4559485079-004	60	-.2066640670+001	-.7154005494+000
61	.6411259680-004	-.2428124488-004	61	-.3832128682+001	-.1408075147+001
70	.4718795916-007	-.2558595359-007	70	-.3296229052+004	-.1786587954+004
71	.1902577607-007	-.1065916376-007	71	-.7826929387+004	-.4389128774+004
80	.2377451288-011	-.1729520265-011	80	-.4348083010+008	-.3187833782+008
81	.8058421388-012	-.6018881752-012	81	-.1234005328+009	-.9293163393+008
90	.2448686017-016	-.2287884363-016	90	-.2875205554+013	-.2716730724+013
91	.7191919200-017	-.6881777951-017	91	-.9419578067+013	-.9117519926+013
99	.2521110300-021	-.2909981593-021	99	-.1961745737+018	-.2294860758+018
100	.6621457867-022	-.7822840059-022	100	-.7172928423+018	-.8590587952+018

REAL X = .5000000000+002 IMAGINARY X = -.1000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.7640643168-002	-.2283339743-001	0	-.2989178842-001	.5569029057-002
1	-.3003541047-001	.5109488667-002	1	.7040819717-002	.2293278155-001
2	.5833110166-002	.2310381609-001	2	.3028656035-001	-.4185166725-002
3	.3057229910-001	-.2788369285-002	3	-.4005007673-002	-.2329058198-001
4	-.1546895344-002	-.2340846350-001	4	-.3078184968-001	.9145794619-003
5	-.3076639816-001	-.1429036006-002	5	-.1536801033-002	.2334437011-001
6	-.5212719327-002	.2295888328-001	6	.3034121448-001	.4212369257-002
7	.2029228858-001	.7368863587-002	7	.9400467111-002	-.2209188078-001
8	.1395269673-001	-.2057342466-001	8	-.2738970370-001	-.1078090328-001
9	-.2441042515-001	-.1426619070-001	9	-.1863596193-001	.1824166377-001
10	-.2311656969-001	.1496899473-001	10	.2017228849-001	.1756838720-001
11	.1457965863-001	.2035655316-001	11	.2695742006-001	-.1069651198-001
12	.2963332567-001	-.5474645159-002	12	-.7678464880-002	-.2223890624-001
13	.2858044668-003	-.2279656648-001	13	-.3057281728-001	-.4952490855-003
14	-.2923294349-001	-.6827493195-002	14	-.8818908809-002	.2164152426-001
15	-.1715496808-001	.1849923715-001	15	.2520895403-001	.1294005589-001
16	.1837182224-001	.1807979771-001	16	.2428181845-001	-.1330943142-001
17	.2903696455-001	-.6328930737-002	17	-.9013747440-002	-.2140037650-001
18	.2034495453-002	-.2210192287-001	18	-.3028943334-001	-.1790984429-002
19	-.2720506222-001	-.9989854138-002	19	-.1336497517-001	.1962747357-001
20	-.2309017999-001	.1388872295-001	20	.1956285475-001	.1688588224-001
30	-.1618082141-002	-.1972572117-001	30	-.2983800484-001	.6326645224-003
31	-.2441762595-001	-.1158131716-001	31	-.1720783549-001	.1564132008-001
40	-.3065961548-001	-.9708136944-003	40	-.2314579805-003	.1623903353-001
41	-.2545613162-001	.8194780349-002	41	.1760681300-001	.1350877982-001
50	.1872704064-001	-.5122363792-002	50	-.4132159502-001	-.9768480434-002
51	.1347564052-001	-.4513541390-002	51	-.5023220472-001	-.1166359597-001
60	.1053877796-003	-.8712727266-004	60	-.1689090989+001	-.1328959136+001
61	.5214320992-004	-.4610678856-004	61	-.3059134541+001	-.2599342088+001
70	.2972560070-007	-.4564833141-007	70	-.2015747829+004	-.3093451991+004
71	.1155955637-007	-.1887317075-007	71	-.4609653012+004	-.7539815864+004
80	.9194097091-012	-.2839982210-011	80	-.1597348603+008	-.5062030262+008
81	.2899990848-012	-.9792862217-012	81	-.4202640859+008	-.1461575680+009
90	.2515519191-017	-.3397864379-016	90	-.2210365250+012	-.3884971011+013
91	.4474202799-018	-.1010722423-016	91	-.4223366789+012	-.1288772922+014
99	-.5572880277-022	-.3876916617-021	99	.4610067768+017	-.2931033356+018
100	-.1720657041-022	-.1028441140-021	100	.1960091036+018	-.1082133551+019

REAL X = .5000000000+002 IMAGINARY X = -.3000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.4108184146-001	-.1958030901+000	0	-.1967448808+000	.4076407652-001
1	-.1973294495+000	.3681294060-001	1	.3711231724-001	.1963802002+000
2	.2915249355-001	.1972961057+000	2	.1982591996+000	-.2889040538-001
3	.1990547113+000	-.1697981432-001	3	-.1718479393-001	-.1980735894+000
4	-.1242678865-002	-.1979986908+000	4	-.1989985908+000	.1115739399-002
5	-.1971468758+000	-.1854547990-001	5	-.1851847065-001	.1961322266+000
6	-.4173013137-001	.1913403166+000	6	.1923594826+000	.4163500396-001
7	.1833617592+000	.6746685523-001	7	.6770535728-001	-.1823559123+000
8	.9533129154-001	-.1678841905+000	8	-.1688501028+000	-.9493121487-001
9	-.1476528347+000	-.1224049445+000	9	-.1229788110+000	.1467628921+000
10	-.1484572824+000	.1181827521+000	10	.1189515953+000	.1477072034+000
11	.8255691601-001	.1681359453+000	11	.1690504018+000	-.8196157119-001
12	.1816733339+000	-.3884725418-001	12	-.3921332888-001	-.1806252302+000
13	.9115149131-002	-.1820592484+000	13	-.1831874161+000	-.9199264752-002
14	-.1708912492+000	-.5881781491-001	14	-.5905604987-001	.1697614645+000
15	-.1058370150+000	.1421416038+000	15	.1431712663+000	.1052599452+000
16	.1002389804+000	.1427064732+000	16	.1436021989+000	-.9942752953-001
17	.1661265235+000	-.4433796105-001	17	-.4481058335-001	-.1649804737+000
18	.1748796348-001	-.1666794293+000	18	-.1679527653+000	-.1751983603-001
19	-.1458578312+000	-.7778869507-001	19	-.7825355137-001	.1446319469+000
20	-.1272215200+000	.9982023371-001	20	.1003894481+000	.1262789556+000
30	-.3950553290-002	-.1199602726+000	30	-.1219925107+000	.3568644580-002
31	-.9482338303-001	-.6871367002-001	31	-.6971833534-001	.9287929412-001
40	-.7812227425-001	-.1548395588-002	40	-.6285916597-003	.7385822573-001
41	-.6067068632-001	.3854804792-001	41	.4215961215-001	.5744375428-001
50	.1681140670-001	-.1804884567-001	50	-.3942692150-001	-.2195240297-001
51	.9819372465-002	-.1474719606-001	51	-.4001888999-001	-.2403566302-001
60	-.7731622744-004	-.1411885203-003	60	.7497575620+000	-.1623150695+001
61	-.4619691118-004	-.6749786531-004	61	.1737798772+001	-.2872340008+001
70	-.6285597320-007	-.1041166076-007	70	.3093974085+004	-.5140825810+003
71	-.2580580418-007	-.2103319759-008	71	.7485282100+004	-.5892305261+003
80	-.2842948041-011	.2059788301-011	80	.3580949616+008	.2718560551+008
81	-.9175663374-012	.7767124268-012	81	.9623963204+008	.8548184413+008
90	-.8413225888-017	.3956393406-016	90	.5717208250+012	.3216454767+013
91	-.1657120171-017	.1191435823-016	91	.1120169381+013	.1075603240+014
99	.1926495974-021	.4288454830-021	99	-.1098860595+018	.2207365611+018
100	.5910428412-022	.1105020168-021	100	-.4625433738+018	.7869584284+018

REAL X = .5000000000+002 IMAGINARY X = -.1000000000+002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.1469454344+002	-.2154868204+003	0	-.2154868212+003	.1469454304+002
1	-.2149406132+003	.1049404825+002	1	.1049404863+002	.2149406123+003
2	.2173038273+001	.2136121623+003	2	.2136121631+003	-.2173037918+001
3	.2110416329+003	.1008737194+002	3	.1008737163+002	-.2110416321+003
4	.2596482922+002	-.2065723567+003	4	-.2065723576+003	-.2596482947+002
5	-.1993971386+003	-.4494149729+002	5	-.4494149712+002	.1993971377+003
6	-.6624362212+002	.1886294688+003	6	.1886294697+003	.6624362218+002
7	.1734047596+003	.8878668337+002	7	.8878668345+002	-.1734047587+003
8	.1111419172+003	-.1530138047+003	8	-.1530138057+003	-.1111419170+003
9	-.1270651533+003	-.1315434557+003	9	-.1315434561+003	.1270651523+003
10	-.1479567784+003	.9566431932+002	10	.9566432024+002	.1479567778+003
11	.5958664395+002	.1582267680+003	11	.1582267688+003	-.5958664315+002
12	.1603154261+003	-.2040827653+002	12	-.2040827715+002	-.1603154250+003
13	.1945041439+002	-.1526234945+003	13	-.1526234958+003	-.1945041475+002
14	-.1343668095+003	-.5681868722+002	14	-.5681868721+002	.1343668082+003
15	-.8804828152+002	.1059490825+003	15	.1059490839+003	.8804828111+002
16	.6924409725+002	.1094825759+003	16	.1094825768+003	-.6924409595+002
17	.1180957855+003	-.2768108161+002	17	-.2768108263+002	-.1180957842+003
18	.1396975014+002	-.1122165636+003	18	-.1122165653+003	-.1396975068+002
19	-.9218649079+002	-.5017731650+002	19	-.5017731664+002	.9218648882+002
20	-.7558302076+002	.6075560260+002	20	.6075560452+002	.7558301980+002
30	-.8527780726+001	-.3207814304+002	30	-.3207814814+002	.8527775922+001
31	-.2685475576+002	-.1059595139+002	31	-.1059595033+002	.2685474765+002
40	-.4503116987+001	.3503497076+001	40	.3503544074+001	.4503104843+001
41	-.1009755184+001	.4410733769+001	41	.4410789746+001	.1009782828+001
50	-.2528114114+000	.5346615762-002	50	.6423274217-002	.2522393732+000
51	-.1467445061+000	.7164944909-001	51	.7351686543-001	.1467319588+000
60	.8122501223-003	-.5425881190-003	60	-.2256572849+000	-.1095958367+000
61	.3016420471-003	-.3844204414-003	61	-.3424484449+000	-.3447815933+000
70	-.3408778766-006	.1346924659-006	70	.4716021364+003	.1926599511+003
71	-.1192138332-006	.9005624971-007	71	.9587828961+003	.7555985766+003
80	.2121599668-010	.3688623245-011	80	-.6994145236+007	.6666668998+006
81	.7422745766-011	-.5639035449-012	81	-.1970702267+008	-.3127106928+007
90	-.1723985773-015	-.2165756224-015	90	.3263713381+012	-.3271863809+012
91	-.6565708993-016	-.5134359592-016	91	.1289524508+013	-.7893081744+012
99	-.1372495197-020	.3349764129-020	99	.7938430124+016	.3011189818+017
100	-.1575780151-021	.9656273517-021	100	.3293270886+016	.1136908043+018

REAL X = .5000000000+002 IMAGINARY X = -.1000000000+003

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.8965178206+041	-.8009060812+041	0	-.8009060812+041	-.6965178206+041
1	-.7909127613+041	-.8925493024+041	1	-.8925493024+041	.7909127613+041
2	-.8845875905+041	.7712135833+041	2	.7712135833+041	.8845875905+041
3	.7423724661+041	.8725900704+041	3	.8725900704+041	-.7423724661+041
4	.8565089756+041	-.7052082032+041	4	-.7052082032+041	-.8565089756+041
5	-.6607631524+041	-.8363089195+041	5	-.8363089195+041	.6607631524+041
6	-.8119873694+041	.6102634534+041	6	.6102634534+041	.8119873694+041
7	.5550724100+041	.7835959327+041	7	.7835959327+041	-.5550724100+041
8	.7512602021+041	-.4966390082+041	8	-.4966390082+041	-.7512602021+041
9	-.4364438112+041	-.7151959977+041	9	-.7151959977+041	.4364438112+041
10	-.6757201401+041	.3759446531+041	10	.3759446531+041	.6757201401+041
11	.3165246177+041	.6332543651+041	11	.6332543651+041	-.3165246177+041
12	.5883216017+041	-.2594447218+041	12	-.2594447218+041	-.5883216017+041
13	-.2058035131+041	-.5415345169+041	13	-.5415345169+041	.2058035131+041
14	-.4935769255+041	.1565054352+041	14	.1565054352+041	.4935769255+041
15	.1122393288+041	.4451793007+041	15	.4451793007+041	-.1122393288+041
16	.3970901357+041	-.7346784835+040	16	-.7346784835+040	-.3970901357+041
17	-.4042791895+040	-.3500452608+041	17	-.3500452608+041	.4042791895+040
18	-.3047373713+041	.1314169453+040	18	.1314169453+040	.3047373713+041
19	-.8563153591+039	.2617879697+041	19	.2617879697+041	.8563153591+039
20	.2217236728+041	.2502552482+040	20	.2502552482+040	-.2217236728+041
30	-.1260417930+040	-.2605991296+040	30	-.2605991296+040	.1260417930+040
31	-.2137720757+040	.7297966736+039	31	.7297966736+039	.2137720757+040
40	-.1357133747+039	.1016349208+039	40	.1016349208+039	.1357133747+039
41	.5702673150+038	.1081113136+039	41	.1081113136+039	-.5702673150+038
50	.2112703762+037	.3988939850+037	50	.3988939954+037	-.2112703862+037
51	.2877711669+037	-.8784727149+036	51	-.8784725392+036	-.2877711544+037
60	.5516537769+035	-.5480556727+033	60	-.5373132145+033	-.5516140284+035
61	.7144093005+034	-.3328416120+035	61	-.3328665529+035	-.7125756847+034
70	.2160462610+033	-.2275115448+033	70	.5098034049+033	.1589269032+034
71	-.9569663433+032	-.1518650330+033	71	-.2888624931+034	.2107631217+034
80	.1847796615+030	-.8241042350+030	80	-.1242046905+036	.6874693439+036
81	-.3951628233+030	-.2128659938+030	81	-.1303935234+037	.1204053108+036
90	-.9396312027+026	-.1094065641+028	90	-.2528915856+039	.4502777404+039
91	-.5314024167+027	-.1130219155+027	91	-.1014677284+040	-.2259443015+039
99	.1332146855+025	-.7272267634+024	99	.2096649333+042	.2923610198+042
100	-.1313259352+024	-.6931765137+024	100	-.4593861856+042	.6187328741+042

REAL X = .1000000000+003 IMAGINARY X = .0000000000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.5063656411-002	.0000000000	0	-.8623188723-002	.0000000000
1	-.8673825287-002	.0000000000	1	.4977424524-002	.0000000000
2	.4803441652-002	.0000000000	2	.8772511459-002	.0000000000
3	.8913997376-002	.0000000000	3	-.4538798951-002	.0000000000
4	-.4179461837-002	.0000000000	4	-.9090227385-002	.0000000000
5	-.9290148935-002	.0000000000	5	.3720678486-002	.0000000000
6	.3157545454-002	.0000000000	6	.9499502019-002	.0000000000
7	.9700629844-002	.0000000000	7	-.2485743224-002	.0000000000
8	-.1702450977-002	.0000000000	8	-.9872363502-002	.0000000000
9	-.9990046510-002	.0000000000	9	.8074414285-003	.0000000000
10	-.1956578597-003	.0000000000	10	.1002577737-001	.0000000000
11	.9948958359-002	.0000000000	11	.1297971820-002	.0000000000
12	.2483918282-002	.0000000000	12	-.9727243855-002	.0000000000
13	-.9327978789-002	.0000000000	13	-.3729782784-002	.0000000000
14	-.5002472555-002	.0000000000	14	.8720202503-002	.0000000000
15	.7877261748-002	.0000000000	15	.6258641510-002	.0000000000
16	.7444423697-002	.0000000000	16	-.6780023635-002	.0000000000
17	-.5420601928-002	.0000000000	17	-.8496049309-002	.0000000000
18	-.9341634372-002	.0000000000	18	.3806406377-002	.0000000000
19	.1964197210-002	.0000000000	19	.9904419669-002	.0000000000
20	.1010767128-001	.0000000000	20	.5631729379-004	.0000000000
30	.8700628514-002	.0000000000	30	-.5412929349-002	.0000000000
31	-.2453480806-002	.0000000000	31	-.9967036473-002	.0000000000
40	.1043410851-001	.0000000000	40	-.7048420407-003	.0000000000
41	.3643741786-002	.0000000000	41	-.9830093513-002	.0000000000
50	.5797140882-003	.0000000000	50	.1074782297-001	.0000000000
51	.9573865262-002	.0000000000	51	.4999376527-002	.0000000000
60	-.4876469107-002	.0000000000	60	-.1008947352-001	.0000000000
61	-.1102316808-001	.0000000000	61	-.2300427244-002	.0000000000
70	-.4767399015-002	.0000000000	70	.1087351322-001	.0000000000
71	.430547 794-002	.0000000000	71	.1115583327-001	.0000000000
80	.5616665954-002	.0000000000	80	.1169783399-001	.0000000000
81	.1154782681-001	.0000000000	81	.6246510169-002	.0000000000
90	-.5861846019-002	.0000000000	90	.1410253654-001	.0000000000
91	.5855771593-003	.0000000000	91	.1565068008-001	.0000000000
99	.1327658222-001	.0000000000	99	-.1885459438-001	.0000000000
100	.1088047701-001	.0000000000	100	-.2298385049-001	.0000000000

REAL X = .1000000000+003 IMAGINARY X = -.1000000000-002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.5063658856-002	-.8673826749-005	0	-.8623193084-002	.4977425324-005
1	-.8673829672-002	.4890180691-005	1	.4977426925-002	.8722738683-005
2	.4803443965-002	.8817930020-005	2	.8772515889-002	-.4714249936-005
3	.8914001866-002	-.4446882468-005	3	-.8538801128-002	-.8954064921-005
4	-.4179463831-002	-.9122971992-005	4	-.9090231962-002	.4084288230-005
5	-.9290153602-002	.3622053471-005	5	.3720880248-002	.9313469653-005
6	.3157546931-002	.9511178705-005	6	.9499506779-002	-.3055713820-005
7	.9700634691-002	-.2381495429-005	7	-.2485744353-002	-.9698363091-005
8	-.1702451724-002	-.9853852067-005	8	-.9872368419-002	.1597230740-005
9	-.9990051467-002	.7034464096-006	9	.8074417290-003	.9953109291-005
10	-.1956580562-003	.9968525787-005	10	.1002578233-001	.2953941680-006
11	.9948963254-002	.1389533124-005	11	.1297972559-002	-.9870022373-005
12	.2483919601-002	-.9626050553-005	12	-.9727248617-002	-.2562513973-005
13	-.9327983330-002	-.3789835963-005	13	-.3729784707-002	.9205075759-005
14	-.5002475090-002	.8577609288-005	14	.8720206722-002	.5037814009-005
15	.7877265529-002	.6262835478-005	15	.6258644641-002	-.7718821097-005
16	.7444427384-002	-.6611710767-005	16	-.6780026859-002	-.7411246750-005
17	-.5420604471-002	-.8420133421-005	17	-.8496053480-002	.5250735581-005
18	-.9341638919-002	.3645691955-005	18	.3806408123-002	.9219268016-005
19	.1964198058-002	.9734475380-005	19	.9904424451-002	-.1825522705-005
20	.1010767612-001	.1584138156-006	20	.5631741969-004	-.9892594616-005
30	.8700632511-002	-.5063670102-005	30	-.5412931720-002	-.8343158943-005
31	-.2453481816-002	-.9485743802-005	31	-.9967040984-002	.2223477985-005
40	.1043411288-001	-.5299016693-006	40	-.7048422398-003	-.9548158027-005
41	.3643743383-002	-.8903738182-005	41	-.9830097547-002	-.3423797728-005
50	.5797142113-003	.9284009370-005	50	.1074782698-001	-.3745349891-006
51	.9573868735-002	.4398696401-005	51	.4999378445-002	-.8148148169-005
60	-.4876470572-002	-.8097287473-005	60	-.1008947675-001	.3753257253-005
61	-.1102317149-001	-.1957895313-005	61	-.2300428046-002	.8663209520-005
70	-.4767400290-002	.7642659744-005	70	.1087351592-001	.3544374313-005
71	.4305480767-002	.7867345106-005	71	.1115583602-001	-.2841313498-005
80	.5616666872-002	.7054494457-005	80	.1169783608-001	-.3111757217-005
81	.1154782871-001	.3852552235-005	81	.6246511283-002	-.6575696025-005
90	-.5861846608-002	.5861238765-005	90	.1410253779-001	.2958397249-005
91	.5855771430-003	.6400577177-005	91	.1565068135-001	.2960891022-006
99	.1327658231-001	-.2263339430-005	99	-.1885459443-001	-.4317802001-005
100	.1088047698-001	-.2287300468-005	100	-.2298385033-001	-.4359094531-005

REAL X = .1000000000+003 IMAGINARY X = -.1000000000-001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.5063900922-002	-.8673971453-004	0	-.8623624863-002	.4977504557-004
1	-.8674263785-002	.4890258453-004	1	.4977664625-002	.8722884135-004
2	.4803672864-002	.8818076926-004	2	.8772954539-002	-.4714324736-004
3	.8914446985-002	-.4446952775-004	3	-.4539016666-002	-.8954213892-004
4	-.4179661270-002	-.9123123504-004	4	-.9090385076-002	.4084352459-004
5	-.9290615675-002	.3622109973-004	5	.3720854650-002	.9313623994-004
6	.3157693158-002	.9511335920-004	6	.9499978059-002	-.3055760889-004
7	.9701114545-002	-.2381531315-004	7	-.2485857118-002	-.9698522934-004
8	-.1702525534-002	-.9854013942-004	8	-.9872855168-002	.1597253678-004
9	-.9990542224-002	.7034546677-005	9	.8074714843-003	.9953272203-004
10	-.1956775038-003	.9966588297-004	10	.1002627286-001	.2954022172-005
11	.9949447856-002	.1389558931-004	11	.1298045733-002	-.9870182565-004
12	.2484050168-002	-.9626206017-004	12	-.9727720071-002	-.2562558679-004
13	-.9328432913-002	-.3789900286-004	13	-.3729975086-002	.9205223602-004
14	-.5002726006-002	.8577746181-004	14	.8720624323-002	.5037898094-004
15	.7877639898-002	.6262938748-004	15	.6258954653-002	-.7718943359-004
16	.7444792409-002	-.6611814505-004	16	-.6780346007-002	-.7411367752-004
17	-.5420856246-002	-.8420269698-004	17	-.8496466367-002	.5250816883-004
18	-.9342089129-002	.3645747143-004	18	.3806580971-002	.9219416011-004
19	.1964281954-002	.9734630398-004	19	.9904897901-002	-.1825548644-004
20	.1010815529-001	.1584193735-005	20	.5632988415-004	-.9892750874-004
30	.8701028155-002	-.5063743495-004	30	-.5413166484-002	-.8343285175-004
31	-.2453581826-002	-.9485885346-004	31	-.9967487615-002	.2223508374-004
40	.1043454519-001	-.5299066596-005	40	-.7048619550-003	-.9548289797-004
41	.3643901505-002	-.8903858919-004	41	-.9830496959-002	-.3423846586-004
50	.5797263986-003	.9284123496-004	50	.1074822371-001	-.3745378514-005
51	.9574212609-002	.4398751172-004	51	.4999568353-002	-.8148246104-004
60	-.4876615594-002	-.8097372531-004	60	-.1008979711-001	.3753295586-004
61	-.1102350885-001	-.1957916268-004	61	-.2300507428-002	.8663298131-004
70	-.4767526558-002	.7642723089-004	70	.1087378315-001	.3544403716-004
71	.4305577155-002	.7867408448-004	71	.1115610876-001	-.2841336468-004
80	.5616757753-002	.7054534812-004	80	.1169804298-001	-.3111776402-004
81	.1154801685-001	.3852572292-004	81	.6246621624-002	-.6575733071-004
90	-.5861904930-002	.5861257445-004	90	.1410266121-001	.2958403086-004
91	.5855755254-003	.6400594176-004	91	.1565080718-001	.2960864115-005
99	.1327659112-001	-.2263344075-004	99	-.1885459949-001	-.4317796573-004
100	.1088947386-001	-.2287303730-004	100	-.2298383464-001	-.4359086033-004

REAL X = .1000000000+003 IMAGINARY X = -.1000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.5088126954-002	-.8688449161-003	0	-.8666839152-002	.4985431668-003
1	-.8717711682-002	.4898038451-003	1	.5001453664-002	.8737436745-003
2	.4826581171-002	.8832774857-003	2	.8816856399-002	-.4721808393-003
3	.8958996335-002	-.4453986861-003	3	-.4560587675-002	-.8969118505-003
4	-.4190420877-002	-.9138282334-003	4	-.9136034433-002	.4090778317-003
5	-.9336861592-002	.3627762799-003	5	.3738308582-002	.9329065762-003
6	.3172327223-002	.9527065306-003	6	.9547145347-002	-.3060469974-003
7	.9749139867-002	-.2385121526-003	7	-.2497141142-002	-.9714515185-003
8	-.1709921929-002	-.9870209482-003	8	-.9921570426-002	.1599548446-003
9	-.1003965851-001	.7042807279-004	9	.8104486637-003	.9969571496-003
10	-.1976246619-003	.9984947354-003	10	.1007536610-001	.2962080952-004
11	.9997947689-002	.1392141108-003	11	.1305369880-002	-.9886209610-003
12	.2497118312-002	-.9641759963-003	12	-.9774903941-002	-.2567031684-003
13	-.9373427692-002	-.3796335899-003	13	-.3749029246-002	.9220015096-003
14	-.5027838757-002	.8591442066-003	14	.8762418117-002	.5046310902-003
15	.7915106759-002	.6273270889-003	15	.6289981616-002	-.7731175410-003
16	.7481324927-002	-.6622193228-003	16	-.6812286100-002	-.7423473959-003
17	-.5446053470-002	-.8433904121-003	17	-.8537788807-002	.5258950932-003
18	-.9387146549-002	.3651268570-003	18	.3823878942-002	.9234222713-003
19	.1972677623-002	.9750139733-003	19	.9952280935-002	-.1828143607-003
20	.1015610980-001	.1589755588-004	20	.5757803816-004	-.9908384150-003
30	.8740622728-002	-.5071086076-003	30	-.5436660081-002	-.8355914098-003
31	-.2463589734-002	-.9500046161-003	31	-.1001218433-001	.2226548607-003
40	.1047780651-001	-.5304058552-004	40	-.7068344476-003	-.9561472266-003
41	.3659724978-002	-.8915937649-003	41	-.9870465571-002	-.3428734414-003
50	.5809457051-003	.9295540340-003	50	.1078792094-001	-.3748241960-004
51	.9608620960-002	.4404230274-003	51	.5018570931-002	-.8158043178-003
60	-.4891125590-002	-.8105880916-003	60	-.1012184954-001	.3757130200-003
61	-.1105726100-001	-.1960012284-003	61	-.2308449649-002	.8672162053-003
70	-.4780158324-002	.7649059260-003	70	.1090051714-001	.3547344673-003
71	.4315219971-002	.7873744183-003	71	.1118339336-001	-.2843634143-003
80	.5625849094-002	.7058570891-003	80	.1171873926-001	-.3113695349-003
81	.1156683602-001	.3854578155-003	81	.6257658214-002	-.6579438349-003
90	-.5867737306-002	.5863125742-003	90	.1411500578-001	.2958986732-003
91	.5854145480-003	.6402294283-003	91	.1566339193-001	.2958172242-004
99	.1327747207-001	-.2263808559-003	99	-.1885510612-001	-.4317253787-003
100	.1088016138-001	-.2287629962-003	100	-.2298226624-001	-.4358236187-003

REAL X = .1000000000+003 IMAGINARY X = -.5000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.5667300750-002	-.4521939666-002	0	-.9736681328-002	.2589964178-002
1	-.9793326822-002	.2544461554-002	1	.5589806876-002	.4547351838-002
2	.5393126630-002	.4596802642-002	2	.9903689256-002	-.2452708583-002
3	.1006182724-001	-.2313278920-002	3	-.5094021630-002	-.4667508341-002
4	-.4688006704-002	-.4755206566-002	4	-.1025862827-001	.2124208304-002
5	-.1048159751-001	.1883211477-002	5	.4169812298-002	.4854066042-002
6	.3534024061-002	.4956589916-002	6	.1071462649-001	-.1587981048-002
7	.1093778745-001	-.1236573838-002	7	-.2775913514-002	-.5053534084-002
8	-.1892469553-002	-.5133868219-002	8	-.1112721305-001	.8278880030-003
9	-.1125513555-001	.3622295008-003	9	.8836308986-003	.5184813631-002
10	-.2462968503-003	.5191997992-002	10	.1129017327-001	.1580413881-003
11	.1119796304-001	.7278042150-003	11	.1487080277-002	-.5139771384-002
12	.2820927009-002	-.5011729872-002	12	-.1094224277-001	-.1338449154-002
13	-.1048648441-001	-.1977179290-002	13	-.4220899562-002	.4791489999-002
14	-.5649537894-002	.4463748409-002	14	.9796160027-002	.2626421040-002
15	.8841687109-002	.3263442342-002	15	.7057906734-002	-.4015642862-002
16	.8385334167-002	-.3438402302-002	16	-.7602039546-002	-.3860299725-002
17	-.6068922790-002	-.4384251280-002	17	-.9560147734-002	.2729232748-002
18	-.1050173179-001	.1893332366-002	18	.4251295450-002	.4798777466-002
19	.2179876587-002	.5065339024-002	19	.1112421021-001	-.9458647728-003
20	.1134198525-001	.8635112107-004	20	.8888246369-004	-.5145963838-002
30	.9718921167-002	-.2625531789-002	30	-.6016723417-002	-.4332792285-002
31	-.2710448640-002	-.4923615798-002	31	-.1111627478-001	.1150514798-002
40	.1154494440-001	-.2713022093-003	40	-.7552454559-003	-.4942200404-002
41	.4050192078-002	-.4605893367-002	41	-.1085611827-001	-.1774241525-002
50	.6108571478-003	.4787449622-002	50	.1176529140-001	-.1909163244-003
51	.1045554850-001	.2269138518-002	51	.5486407764-002	-.4198870033-002
60	-.5247590997-002	-.4156886122-002	60	-.1090916532-001	.1925430337-002
61	-.1188615296-001	-.1005592973-002	61	-.2503431881-002	.4444365190-002
70	-.5089413320-002	.3901830015-002	70	.1155552089-001	.1809518827-002
71	.4551589015-002	.4014130649-002	71	.1185152343-001	-.1449867845-002
80	.5848207106-002	.3578410918-002	80	.1222401755-001	-.1580244585-002
81	.1202646177-001	.1951674545-002	81	.6526764446-002	-.3334841259-002
90	-.6009242652-002	.2954276390-002	90	.1441563797-001	.1486557000-002
91	.5819858199-003	.3221800048-002	91	.1596956256-001	.1446094762-003
99	.1329864204-001	-.1137538991-002	99	-.1886786176-001	-.2152048328-002
100	.1087238285-001	-.1147769194-002	100	-.2294475228-001	-.2168826195-002

REAL X = .1000000000+003 IMAGINARY X = -.1000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.7711519181-002	-.1021109687-001	0	-.1336444723-001	.5817170586-002
1	-.1344053371-001	.5714298753-002	1	.7577306412-002	.1026792645-001
2	.7306629369-002	.1037847694-001	2	.1358866363-001	-.5506890629-002
3	.1380063993-001	-.5191773844-002	3	-.6895187998-002	-.1053644980-001
4	-.6337047290-002	-.1073220528-001	4	-.1406390375-001	.4764586742-002
5	-.1436125914-001	.4220269176-002	5	.5625275523-002	.1095256348-001
6	.4752824911-002	.1118059267-001	6	.1467057557-001	-.3553738041-002
7	.1496453128-001	-.2760759407-002	7	-.3713672000-002	-.1139543339-001
8	-.2504228940-002	-.1157222062-001	8	-.1521047923-001	.1839023996-002
9	-.1537053682-001	.7894218463-003	9	.1125023056-002	.1168218098-001
10	-.4173807964-003	.1169299468-001	10	.1540201831-001	.3825057811-003
11	.1525834279-001	.1664985095-002	11	.2108274198-002	-.1156952179-001
12	.3922619647-002	-.1127499571-001	12	-.1489055649-001	-.3038381175-002
13	-.1424960125-001	-.4473646608-002	13	-.5822945901-002	.1077277978-001
14	-.7757549648-002	.1002876183-001	14	.1328943471-001	.5931020499-002
15	.1197105631-001	.7359202090-002	15	.9659298371-002	-.9014420313-002
16	.1144539479-001	-.7710530731-002	16	-.1026740971-001	-.8695270545-002
17	-.8169011477-002	-.9865656783-002	17	-.1301851326-001	.6111388884-002
18	-.1426973658-001	.4229307439-002	18	.5689997949-002	.1078848254-001
19	.2874089999-002	.1137755132-001	19	.1508368860-001	-.2098998592-002
20	.1534615158-001	.2187017258-003	20	.2002376755-003	-.1154818963-001
30	.1301129561-001	-.5838473777-002	30	-.7963575869-002	-.9677771545-002
31	-.3535914803-002	-.1098142629-001	31	-.1482850475-001	.25[illegible]3617625-002
40	.1511369092-001	-.5819478097-003	40	-.9140487876-003	-.1093590358-001
41	.5357817027-002	-.1017459068-001	41	-.1414900056-001	-.3938553354-002
50	.7088453943-003	.1048049552-001	50	.1501010144-001	-.4045850444-003
51	.1326442613-001	.4972535176-002	51	.7039296062-002	-.9174415206-002
60	-.6421166079-002	-.8983881180-002	60	-.1349956[illegible]-001	.4153463061-002
61	-.1461117233-001	-.2175625352-002	61	-.3143534453-002	.9586687526-002
70	-.6093868808-002	.8299283083-002	70	.1368942618-001	.3848037271-002
71	.5323134844-002	.8522689951-002	71	.1402351562-001	-.3080084396-002
80	.6567759399-002	.7468926989-002	80	.1384744228-001	-.3310151868-002
81	.1350547126-001	.4057543473-002	81	.7387055669-002	-.6956934477-002
90	-.6452804092-002	.6052192317-002	90	.1537220635-001	.3016985737-002
91	.5772352192-003	.6573811868-002	91	.1693985921-001	.2676928765-003
99	.1336246769-001	-.2310408001-002	99	-.1891356220-001	-.4262993859-002
100	.1084554275-001	-.2320248501-002	100	-.2283376183-001	-.4273553747-002

REAL X = .1000000000+003 IMAGINARY X = -.3000000000+001

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	-.4834409074-001	-.8783634882-001	0	-.8825772973-001	.4807934471-001
1	-.8871440872-001	.4718728085-001	1	.4744789622-001	.8829025643-001
2	.4564262125-001	.8917092316-001	2	.8960049689-001	-.4539035400-001
3	.9086085160-001	-.4266434141-001	3	-.4290387546-001	-.9042345351-001
4	-.3919856617-001	-.9196410541-001	4	-.9241134916-001	.3897638669-001
5	-.9413747051-001	.3428927335-001	5	.3448919101-001	.9367888778-001
6	.2873970279-001	.9542215958-001	6	.9589288646-001	-.2856726291-001
7	.9749846056-001	-.2178356291-001	7	-.2192301301-001	-.9701564662-001
8	-.1405014628-001	-.9824840732-001	8	-.9874220361-001	.1392943641-001
9	-.9938082443-001	.5024862746-002	9	.5080956117-002	.9887838910-001
10	-.4863847489-002	.9863631143-001	10	.9914361718-001	.4869499931-002
11	.9773948490-001	.1563952247-001	11	.1568983193-001	-.9723267047-001
12	.2721589946-001	-.9436865970-001	12	-.9486789856-001	-.2710474258-001
13	-.9023449957-001	-.3900653783-001	13	-.3918237771-001	.8975170846-001
14	-.5124163823-001	.8311612232-001	14	.8357183420-001	.5099882193-001
15	.7466532648-001	.6264313811-001	15	.6295312620-001	-.7424892764-001
16	.7378501921-001	-.6302044808-001	16	-.6338401908-001	-.7341035505-001
17	-.4971482316-001	-.8269137088-001	17	-.8312493536-001	.4941835620-001
18	-.9030298256-001	.3358295637-001	18	.3379802636-001	.8981919994-001
19	.1596066054-001	.9410443986-001	19	.9462286385-001	-.1584031437-001
20	.9542111110-001	.3271346031-002	20	.3256872814-002	-.9488527557-001
30	.7720973418-001	-.4486898675-001	30	-.4519739703-001	-.7672183097-001
31	-.1890329365-001	-.8614476642-001	31	-.8671689933-001	.1874020036-001
40	.8146070615-001	-.3420309890-002	40	-.3493103445-002	-.8079201807-001
41	.2986209141-001	-.7426938238-001	41	-.7491953265-001	-.2965141528-001
50	.2338088009-002	.7124352454-001	50	.7204622511-001	-.2255715004-002
51	.6229313364-001	.3387381436-001	51	.3421886417-001	-.6154464856-001
60	-.2563313137-001	-.5500588634-001	60	-.5590169000-001	.2533269520-001
61	-.5900126590-001	-.1320224802-001	61	-.1335485124-001	.5795726935-001
70	-.2085527165-001	.4472068005-001	70	.4605081829-001	.2038908275-001
71	.1727347140-001	.4500813721-001	71	.4632749143-001	-.1664162691-001
80	.1694448815-001	.3392613198-001	80	.3577468735-001	-.1580236443-001
81	.3379591171-001	.1761804943-001	81	.1847958859-001	-.3167432818-001
90	-.1125685806-001	.2325061228-001	90	.2730447976-001	.1035762854-001
91	.1177830856-002	.2421558082-001	91	.2862484803-001	-.1651360579-003
99	.1380404882-001	-.8091686433-002	99	-.1993047748-001	-.1146967018-001
100	.1030722235-001	-.7747801501-002	100	-.2219898966-001	-.1082432680-001

REAL X = .1000000000+003 IMAGINARY X = -.1000000000+002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	-.4581218706+002	-.9955040423+002	0	-.9955040460+002	.4581218679+002
1	-.9990542585+002	.4478118063+002	1	.4478118089+002	.9990542548+002
2	.4271168576+002	.1005837895+003	2	.1005837899+003	-.4271168550+002
3	.1015219262+003	-.3959034112+002	3	-.3959034136+002	-.1015219258+003
4	-.3540112415+002	-.1026240572+003	4	-.1026240576+003	.3540112392+002
5	-.1037620100+003	.3013016758+002	5	.3013016779+002	.1037620096+003
6	.2377216084+002	.1047754793+003	6	.1047754798+003	-.2377216065+002
7	.1054731978+003	-.1633823649+002	7	-.1633823665+002	-.1054731974+003
8	-.7865177454+001	-.1056355165+003	8	-.1056355169+003	.7865177327+001
9	-.1050190160+003	-.1574383134+001	9	-.1574383047+001	.1050190155+003
10	-.1186125795+002	.1033637401+003	10	.1033637406+003	.1186125800+002
11	.1004036668+003	.2281923364+002	11	.2281923365+002	-.1004036663+003
12	.3420581339+002	-.9568086086+002	12	-.9568086134+002	-.3420581332+002
13	-.8956359266+002	-.4570544144+002	13	-.4570544158+002	.8956359219+002
14	-.5692672735+002	.8126830027+002	14	.8126830074+002	.5692672715+002
15	.7008484847+002	.6740537410+002	15	.6740537437+002	-.7008484803+002
16	.7661458520+002	-.5840384652+002	16	-.5840384691+002	-.7661458486+002
17	-.4394411518+002	-.6398457[illegible]	17	-.6398457125+002	.4394411534+002
18	-.8893238768+002	.2777746840+002	18	.2777746874+002	.8893238721+002
19	.1034733372+002	.9090255598+002	19	.9090255650+002	-.1034733355+002
20	.8941779409+002	.7723068995+001	20	.7723068929+001	-.8941779353+002
30	.6145913190+002	-.3358664965+002	30	-.3358664014+002	-.6145913134+002
31	-.1269492298+002	-.6673130926+002	31	-.6673130997+002	.1269492268+002
40	.4899311646+002	-.2296734711+001	40	-.2296735000+001	-.4899311539+002
41	.1706175920+002	-.4382414319+002	41	-.4382414433+002	-.1706175903+002
50	.2533856213+001	.3031573110+002	50	.3031573288+002	-.2533855631+001
51	.2597544139+002	.1241264311+002	51	.1241264352+002	-.2597543944+002
60	-.8539371035+001	-.1395664056+002	60	-.1395664317+002	.8538368331+001
61	-.1516492002+002	-.1500581215+001	61	-.1500581511+001	.1516491600+002
70	-.1580273664+001	.7189380011+001	70	.7189389249+001	.1580274386+001
71	.3664214811+001	.5627286227+001	71	.5627292823+001	-.3664206921+001
80	.1845092475+001	.1818306635+001	80	.1818318922+001	-.1845064551+001
81	.2272169874+001	.3005264581+000	81	.3005180232+000	-.2272135799+001
90	.1300636259+000	.5978743144+000	90	.5979912621+000	-.1299561586+000
91	.3236871612+000	.3962721421+000	91	.3963350344+000	-.3235032411+000
99	-.4434742609-001	-.6565158582-001	99	-.6576936776-001	.4294729243-001
100	-.4549109106-001	-.3641580696-001	100	-.3591373783-001	.4365697236-001

REAL X = .1000000000+003 IMAGINARY X = -.1000000000+003

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.2392109956+041	-.9197960756+041	0	-.9197960756+041	-.2392109956+041
1	-.9140010402+041	-.2426139210+041	1	-.2426139210+041	.9140010402+041
2	-.2492818024+041	.9024468511+041	2	.9024468511+041	.2492818024+041
3	.8852078239+041	.2589430472+041	3	.2589430472+041	-.8852078239+041
4	.2712010696+041	-.8624015706+041	4	-.8624015706+041	-.2712010696+041
5	-.8341957050+041	-.2855470698+041	5	-.2855470698+041	.8341957050+041
6	-.3013767445+041	.8008157180+041	6	.8008157180+041	.3013767445+041
7	.7625531950+041	.3180106030+041	7	.3180106030+041	-.7625531950+041
8	.3347174389+041	-.7197734332+041	8	-.7197734332+041	-.3347174389+041
9	-.6729214709+041	-.3507403626+041	9	-.3507403626+041	.6729214709+041
10	-.3653246442+041	.6225255590+041	10	.6225255590+041	.3653246442+041
11	.5691971995+041	.3777464585+041	11	.3777464586+041	-.5691971995+041
12	.3873414794+041	-.5136270383+041	12	-.5136270383+041	-.3873414794+041
13	-.4565761348+041	-.3935321535+041	13	-.3935321535+041	.4565761348+041
14	-.3958524169+041	.3988624194+041	14	.3988624194+041	.3958524169+041
15	.3413424835+041	.3939686038+041	15	.3939686038+041	-.3413424835+041
16	.3876953632+041	-.2848892009+041	16	-.2848892009+041	-.3876953682+041
17	-.2303660296+041	-.3770055862+041	17	-.3770055862+041	.2303660296+041
18	-.3620334458+041	.1785991681+041	18	.1785991681+041	.3620334458+041
19	.1303489961+041	.3430702448+041	19	.3430702448+041	-.1303489961+041
20	.3205528023+041	-.8628241610+040	20	-.8628241610+040	-.3205528023+041
30	-.4888740293+040	-.7804364646+040	30	-.7804364646+040	.4888740293+040
31	-.7239447134+040	.3104431435+040	31	.3104431435+040	.7239447134+040
40	-.1430015818+040	.5481911310+039	40	.5481911310+039	.1430015818+040
41	.2019117458+039	.1227591424+040	41	.1227591424+040	-.2019117458+039
50	-.4590311226+038	.1443096596+039	50	.1443096596+039	.4590311225+038
51	.9899373339+038	.6184441092+038	51	.6184441092+038	-.9899373339+038
60	.1067320291+037	.8752961876+037	60	.8752961824+037	-.1067320337+037
61	.6344067578+037	.1121637394+037	61	.1121637424+037	-.6344067665+037
70	.2980662635+035	.2977301231+036	70	.2977306029+036	-.2980800143+035
71	.2010431392+036	.4932[illegible]785+035	71	.4932432609+035	-.2010458679+036
80	-.2021197849+034	.5496[illegible]224+034	80	.5398015060+034	.1988770849+034
81	.2844248688+034	.2568[illegible]014+034	81	.2559185746+034	-.3002217914+034
90	-.6131323453+032	.2304410877+032	90	-.7987519869+034	.4470608097+034
91	-.2506142855+031	.4043706826+032	91	-.1170836989+035	-.8930794590+034
99	.2915616546+030	-.6444524004+030	99	.7913026277+036	.2611186854+036
100	-.2651086885+030	-.3201[illegible]9250+030	100	.1856362935+036	.1402942311+037

REAL X = .1000000000+004 IMAGINARY X = .0000000000

N	FIRST KIND REAL BESSEL	IMAGINARY BESSEL	N	SECOND KIND REAL BESSEL	IMAGINARY BESSEL
0	.8268795405-003	.0000000000	0	-.5623790763-003	.0000000000
1	-.5615523968-003	.0000000000	1	-.8274419196-003	.0000000000
2	-.8285641971-003	.0000000000	2	.5598967505-003	.0000000000
3	.5574093758-003	.0000000000	3	.8302414034-003	.0000000000
4	.8324660628-003	.0000000000	4	-.5540850607-003	.0000000000
5	-.5499171812-003	.0000000000	5	-.8352281689-003	.0000000000
6	-.8385151517-003	.0000000000	6	.5448975509-003	.0000000000
7	.5390164842-003	.0000000000	7	.8423118371-003	.0000000000
8	.8466003990-003	.0000000000	8	-.5322628733-003	.0000000000
9	-.5246242774-003	.0000000000	9	-.8513603059-003	.0000000000
10	-.8565682603-003	.0000000000	10	.5160870275-003	.0000000000
11	.5066363440-003	.0000000000	11	.8621981335-003	.0000000000
12	.8682208962-003	.0000000000	12	-.4962564704-003	.0000000000
13	-.4849308216-003	.0000000000	13	-.8746045453-003	.0000000000
14	-.8813140284-003	.0000000000	14	.4726421477-003	.0000000000
15	.4593727148-003	.0000000000	15	.8883111675-003	.0000000000
16	.8955545825-003	.0000000000	16	-.4451045015-003	.0000000000
17	-.4298194135-003	.0000000000	17	-.9029996161-003	.0000000000
18	-.9105982620-003	.0000000000	18	.4134995149-003	.0000000000
19	.3961272778-003	.0000000000	19	.9182990981-003	.0000000000
20	.9260472258-003	.0000000000	20	-.3776858501-003	.0000000000
30	-.9915016930-003	.0000000000	30	.1318700748-003	.0000000000
31	.1010717271-003	.0000000000	31	.9951285719-003	.0000000000
40	.9756714624-003	.0000000000	40	.2211022528-003	.0000000000
41	.2609242061-003	.0000000000	41	-.9658057108-003	.0000000000
50	-.7793195564-003	.0000000000	50	-.6276451790-003	.0000000000
51	-.6665907154-003	.0000000000	51	.7463145848-003	.0000000000
60	.3314315694-003	.0000000000	60	.9444512432-003	.0000000000
61	.9629392502-003	.0000000000	61	-.2732112341-003	.0000000000
70	.3130314795-003	.0000000000	70	-.9510549881-003	.0000000000
71	-.9264626594-003	.0000000000	71	-.3797799079-003	.0000000000
80	-.8803982363-003	.0000000000	80	.4776554956-003	.0000000000
81	.4047902507-003	.0000000000	81	.9162327671-003	.0000000000
90	.9381941847-003	.0000000000	90	.3520113521-003	.0000000000
91	.4359464486-003	.0000000000	91	-.9023099003-003	.0000000000
99	.9397878358-003	.0000000000	99	-.3489783311-003	.0000000000
100	-.2532631123-003	.0000000000	100	-.9700239001-003	.0000000000

REAL X = .1000000000+004 IMAGINARY X = -.1000000000-002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.8268799545-003	-.5615522901-006	0	-.5623793567-003	-.8274420577-006
1	-.5615524767-003	-.8280027831-006	1	-.8274423339-003	.5607242856-006
2	-.8285646120-003	.5590665971-006	2	.5598970296-003	.8291217482-006
3	.5574095536-003	.8307939733-006	3	.8302418190-003	-.5565758774-006
4	.8324664795-003	-.5532471374-006	4	-.5540853369-003	-.8330119677-006
5	-.5499174553-003	-.8357657053-006	5	-.8352285871-003	.5490737829-006
6	-.8385.35715-003	.5440476655-006	6	.5448978224-003	.8390425918-006
7	.5390167529-003	.8428274243-006	7	.8423122587-003	-.5381591456-006
8	.8466008228-003	-.5313971689-006	8	-.5322631386-003	-.8471023443-006
9	-.5246245389-003	-.8518467839-006	9	-.8513607321-003	.5237493572-006
10	-.8565686890-003	.5152021122-006	10	.5160872846-003	.8570374062-006
11	.5066365964-003	.8626480403-006	11	.8621985650-003	-.5057407339-006
12	.8682213307-003	-.4953495546-006	12	-.4962567176-003	-.8686496125-006
13	-.4849310631-003	-.8750100737-006	13	-.8746049830-003	.4840120871-006
14	-.8813144694-003	.4717111895-006	14	.4726423831-003	.8816943245-006
15	.4593729435-003	.8886641400-006	15	.8883116120-003	-.4584292451-006
16	.8955550306-003	-.4441483606-006	16	-.4451047231-003	-.8958780935-006
17	-.4298196275-003	-.9032914826-006	17	-.9030000679-003	.4288505796-006
18	-.9105987176-003	.4125181150-006	18	.4134997207-003	.9108562588-006
19	.3961274749-003	.9185209607-006	19	.9182995575-003	-.3951335985-006
20	.9260476890-003	-.3766803485-006	20	-.3776860379-003	-.9262306554-006
30	-.9915021884-003	.1308167993-006	30	.1318701397-003	.9911726347-006
31	.1010717766-003	.9947361539-006	31	.9951290690-003	-.1000259768-006
40	.9756719492-003	.2218973849-006	40	.2211023641-003	-.9746499630-006
41	.2609243373-003	-.9647128062-006	41	-.9658061926-003	-.2616661365-006
50	-.7793199444-003	-.6276248422-006	50	-.6276454928-003	.7776969728-006
51	-.6665910485-003	.7446569627-006	51	.7463149563-003	.6664536485-006
60	.3314317336-003	.9430535127-006	60	.9444517140-003	-.3298783631-006
61	.9629397301-003	-.2717293807-006	61	-.2732113692-003	-.9613904994-006
70	.3130316362-003	-.9483750202-006	70	-.9510554610-003	-.3132061110-006
71	-.9264631199-003	-.3797368543-006	71	-.3797800977-003	.9237109878-006
80	-.8803986741-003	.4752221880-006	80	.4776557320-003	.8780204730-006
81	.4047904508-003	.9135911882-006	81	.9162332226-003	-.4025244751-006
90	.9381946496-003	.3515090304-006	90	.3520115276-003	-.9339910762-006
91	.4359466657-003	-.8980872597-006	91	-.9023103472-003	-.4350239351-006
99	.9397883014-003	-.3463021649-006	99	-.3489785030-003	-.9354751998-006
100	-.2532632367-003	-.9653675695-006	100	-.9700243804-003	.2510059583-006

REAL X = .1000000000+004 IMAGINARY X = -.1000000000-001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.8269209410-003	-.5615615284-005	0	-.5624071127-003	-.8274557290-005
1	-.5615801917-003	-.8280164636-005	1	-.8274833480-003	.5607335102-005
2	-.8286056813-003	.5590757942-005	2	.5599246625-003	.8291354471-005
3	.5574371631-003	.8308076996-005	3	.8302829709-003	-.5565850334-005
4	.8325077409-003	-.5532562383-005	4	-.5541126813-003	-.8330257304-005
5	-.5499445929-003	-.8357795132-005	5	-.8352699843-003	.5490828148-005
6	-.8385571305-003	.5440566143-005	6	.5449247109-003	.8390564534-005
7	.5390433495-003	.8428413479-005	7	.8423540045-003	-.5381679969-005
8	.8466427795-003	-.5314059084-005	8	-.5322894000-003	-.8471163380-005
9	-.5246504213-003	-.8518608554-005	9	-.8514029228-003	.5237579702-005
10	-.8566111359-003	.5152105838-005	10	.5161127435-003	.8570515628-005
11	.5066615864-003	.8626622888-005	11	.8622412886-003	-.5057490490-005
12	.8682643504-003	-.4953576979-005	12	-.4962811927-003	-.8686639594-005
13	-.4849549764-003	-.8750245247-005	13	-.8746483163-003	.4840200430-005
14	-.8813581324-003	.4717189420-005	14	.4726656869-003	.8817088850-005
15	.4593955892-003	.8886788146-005	15	.8883556186-003	-.4584367781-005
16	.8955993929-003	-.4441556575-005	16	-.4451266613-003	-.8958928861-005
17	-.4298408078-003	-.9033063965-005	17	-.9030447955-003	.4288576236-005
18	-.9106438180-003	.4125248892-005	18	.4135200919-003	.9108712964-005
19	.3961469850-003	.9185361236-005	19	.9183450355-003	-.3951400854-005
20	.9260935468-003	-.3766865306-005	20	-.3777046340-003	-.9262459442-005
30	-.9915512355-003	.1308189231-005	30	.1318765631-003	.9911889782-005
31	.1010766762-003	.9947525541-005	31	.9951782894-003	-.1000275928-005
40	.9757201442-003	.2219010723-005	40	.2211133873-003	-.9746660110-005
41	.2609373264-003	-.9647286879-005	41	-.9658538921-003	-.2616704783-005
50	-.7793583605-003	-.6276351971-005	50	-.6276765593-003	.7777097514-005
51	-.6666240313-003	.7446691951-005	51	.7463517352-003	.6664646403-005
60	.3314479862-003	.9430690270-005	60	.9444983263-003	-.3298837553-005
61	.9629872426-003	-.2717338158-005	61	-.2732247469-003	-.9614063113-005
70	.3130471483-003	-.9483905803-005	70	-.9511022736-003	-.3132112842-005
71	-.9265087082-003	-.3797431182-005	71	-.3797988923-003	.9237261387-005
80	-.8804420188-003	.4752299497-005	80	.4776791360-003	.8780348820-005
81	.4048102646-003	.9136061755-005	81	.9162783151-003	-.4025310428-005
90	.9382406754-003	.3515148133-005	90	.3520289020-003	-.9340063494-005
91	.4359681534-003	-.8981019399-005	91	-.9023545949-003	-.4350310822-005
99	.9398343950-003	-.3463077919-005	99	-.3489955139-003	-.9354904936-005
100	-.2532755511-003	-.9653833454-005	100	-.9700719369-003	.2510100267-005

REAL X = .1000000000+004 IMAGINARY X = -.1000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.8310230096-003	-.5624858205-004	0	-.5651850275-003	-.8288235474-004
1	-.5643539988-003	-.8293852021-004	1	-.8315881863-003	.5616564318-004
2	-.8327160467-003	.5599959719-004	2	.5626902461-003	.8305060219-004
3	.5601903906-003	.8321810184-004	3	.8344015960-003	-.5575010883-004
4	.8366373211-003	-.5541667835-004	4	-.5568493959-003	-.8344026886-004
5	-.5526606050-003	-.8371609897-004	5	-.8394131654-003	.5499864525-004
6	-.8427164956-003	.5449519334-004	6	.5476157907-003	.8404433060-004
7	.5417052198-003	.8442344094-004	7	.8465320614-003	-.5390535706-004
8	.8508419472-003	-.5322802918-004	8	-.5349177291-003	-.8485164115-004
9	-.5272408163-003	-.8532687100-004	9	-.8556255184-003	.5246196982-004
10	-.8608593605-003	.5160581689-004	10	.5166607447-003	.8584679288-004
11	.5091626616-003	.8640878534-004	11	.8665172137-003	-.5065809800-004
12	.8725699028-003	-.4961724377-004	12	-.4987307325-003	-.8700993613-004
13	-.4873482902-003	-.8764703499-004	13	-.8789852643-003	.4848160279-004
14	-.8857290699-003	.4724945801-004	14	.4749979997-003	.8831656613-004
15	.4616620394-003	.8901470065-004	15	.8927599501-003	-.4591904490-004
16	.9000393170-003	-.4448857117-004	16	-.4473222991-003	-.8973728896-004
17	-.4319605954-003	-.9047985335-004	17	-.9075212896-003	.4295623823-004
18	-.9151576210-003	.4132026447-004	18	.4155689040-003	.9123758095-004
19	.3980996109-003	.9200531704-004	19	.9228966314-003	-.3957691020-004
20	.9306831469-003	-.3773050455-004	20	-.3795657814-003	-.9277755914-004
30	-.9964600263-003	.1310314085-004	30	.1325194324-003	.9928241413-004
31	.1015670409-003	.9963933011-004	31	.1000104420-002	-.1001892735-004
40	.9805436498-003	.2222699969-004	40	.2222166322-003	-.9762716178-004
41	.2622373275-003	-.9663176555-004	41	-.9706273144-003	-.2621048780-004
50	-.7832031628-003	-.6286712126-004	50	-.6307857950-003	.7789882535-004
51	-.6699250525-003	.7458930401-004	51	.7500326801-003	.6675643705-004
60	.3330745873-003	.9446212276-004	60	.9491634279-003	-.3304232350-004
61	.9677424423-003	-.2721775387-004	61	-.2745636242-003	-.9629882873-004
70	.3145996493-003	-.9499473711-004	70	-.9557874168-003	-.3137268715-004
71	-.9310713108-003	-.3803698195-004	71	-.3816799194-003	.9252419814-004
80	-.8847800847-003	.4760065008-004	80	.4800214676-003	.8794764988-004
81	.4067932728-003	.9151056501-004	81	.9207913030-003	-.4031881373-004
90	.9428470623-003	.3520933860-004	90	.3537677924-003	-.9355344257-004
91	.4381187145-003	-.8995706888-004	91	-.9067830198-003	-.4357461451-004
99	.9444475640-003	-.3468707701-004	99	-.3506980042-003	-.9370206314-004
100	-.2515080030-003	-.9669617123-004	100	-.9748315093-003	.2514170665-004

REAL X = .1000000000+004 IMAGINARY X = -.5000000000+000

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9325571334-003	-.2925868180-003	0	-.6339376487-003	-.4312000156-003
1	-.6330049455-003	-.4314921361-003	1	-.9331908553-003	.2921553011-003
2	-.9344555005-003	.2912913924-003	2	.6311376386-003	.4320750815-003
3	.6283319409-003	.4329462565-003	3	.9363454625-003	-.2899933484-003
4	.9388523077-003	-.2882585702-003	4	-.6245822070-003	-.4341017572-003
5	-.6198809751-003	-.4355363582-003	5	-.9419647475-003	.2860836230-003
6	-.9456686013-003	.2834642621-003	6	.6142190239-003	.4372434955-003
7	.6075854439-003	.4392152458-003	7	.9499467508-003	-.2803954665-003
8	.9547790865-003	-.2768714782-003	8	-.5999677233-003	-.4414423018-003
9	-.5913518500-003	-.4439139442-003	9	-.9601424472-003	.2728858495-003
10	-.9660105517-003	.2684314975-003	10	.5817224289-003	.4466180103-003
11	.5710628150-003	.4495408611-003	11	.9723539257-003	-.2635007656-003
12	.9791398235-003	-.2580854931-003	12	-.5593552640-003	-.4526673444-003
13	-.5465810995-003	-.4559807576-003	13	-.9863321455-003	.2521770929-003
14	-.9938913537-003	.2457666369-003	14	.5327208983-003	.4594628087-003
15	.5177546938-003	.4630935768-003	15	.1001774385-002	-.2388449503-003
16	.1009934567-002	-.2314027144-003	16	-.5016621980-003	-.4668514728-003
17	-.4844230433-003	-.4707132006-003	17	-.1018321531-002	.2234305781-003
18	-.1026881132-002	.2149192791-003	18	.4660170433-003	.4746537204-003
19	.4464244749-003	.4786462146-003	19	.1035555378-002	-.2058597735-003
20	.1044282349-002	-.1962433761-003	20	-.4256263795-003	-.4826620563-003
30	-.1117956991-002	.6812311941-004	30	.1484259133-003	.5164811261-003
31	.1136988853-003	.5183353567-003	31	.1122030255-002	-.5207850296-004
40	.1099926202-002	.1156634030-003	40	.2495273083-003	-.5078417557-003
41	.2944176908-003	-.5026605172-003	41	-.1088782756-002	-.1363844259-003
50	-.8783585834-003	-.3270511568-003	50	-.7077430804-003	.4051850457-003
51	-.7516286757-003	.3879665870-003	51	.8411322557-003	.3472796813-003
60	.3733271843-003	.4913608873-003	60	.1064623365-002	-.1718321664-003
61	.1085431658-002	-.1415340812-003	61	-.3076950659-003	-.5009097914-003
70	.3530267587-003	-.4940796627-003	70	-.1071736999-002	-.1632171333-003
71	-.1043987511-002	-.1978767119-003	71	-.4282373553-003	.4812243558-003
80	-.9921405337-003	.2475330714-003	80	.5379849137-003	.4574307770-003
81	.4558638756-003	.4759553416-003	81	.1032479970-002	-.2096578211-003
90	.1056839749-002	.1831475515-003	90	.3968048061-003	-.4865200131-003
91	.4913429751-003	-.4678099818-003	91	-.1016370849-002	-.2266489383-003
99	.1058607492-002	-.1803438091-003	99	-.3928234924-003	-.4872883537-003
100	-.2950015743-003	-.5028506677-003	100	-.1092613401-002	.1307032515-003

REAL X = .1000000000+004 IMAGINARY X = -.1000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.1276601438-002	-.6596319603-003	0	-.8668236454-003	-.9726166467-003
1	-.8655463856-003	-.9732750014-003	1	-.1277467288-002	.6586584778-003
2	-.1279195155-002	.6567095416-003	2	.8629892714-003	.9745887877-003
3	.8591471327-003	.9765521498-003	3	.1281777358-002	-.6537812238-003
4	.1285202343-002	-.6498676693-003	4	-.8540122624-003	-.9791562793-003
5	-.8475744744-003	-.9823893862-003	5	-.1289454648-002	.6449611400-003
6	-.1294514847-002	.6390520736-003	6	.8398211809-003	.9862366608-003
7	.8307374905-003	.9906802262-003	7	.1300359491-002	-.6321291586-003
8	.1306961036-002	-.6241794240-003	8	-.8203063261-003	-.9956930833-003
9	-.8085085641-003	-.1001269047-002	9	-.1314287758-002	.6151883459-003
10	-.1322303660-002	.6051399695-003	10	.7953231951-003	.1007362679-002
11	.7807275071-003	.1013949206-002	11	.1330968374-002	-.5940170490-003
12	.1340237054-002	-.5818012044-003	12	-.7646972907-003	-.1020994445-002
13	-.7472070692-003	-.1028460715-002	13	-.1350060262-002	.5684730960-003
14	-.1360383856-002	.5540126182-003	14	.7282303514-003	.1036306752-002
15	.7077399105-003	.1044487614-002	15	.1371148868-002	-.5383991116-003
16	.1382291392-002	-.5216115947-003	16	-.6857080886-003	-.1052954602-002
17	-.6621071270-003	-.1061655164-002	17	-.1393742465-002	.5036290161-003
18	-.1405427960-002	.4844305274-003	18	.6369095241-003	.1070532819-002
19	.6100884206-003	.1079527075-002	19	.1417268484-002	-.4639957758-003
20	.1429179284-002	-.4423052201-003	20	-.5816180127-003	-.1088573363-002
30	-.1529578604-002	.1533494944-003	30	.2022495659-003	.1164704772-002
31	.1547342268-003	.1168869355-002	31	.1535100762-002	-.1171669699-003
40	.1504338642-002	.2610644723-003	40	.3421103029-003	-.1145033428-002
41	.4034961332-003	-.1133329153-002	41	-.1489031274-002	-.3077810802-003
50	-.1200648150-002	-.7375753470-003	50	-.9684798476-003	.9133550097-003
51	-.1028438831-002	.8745137312-003	51	.1149677991-002	.7831641071-003
60	.5096059302-003	.1107762502-002	60	.1455720736-002	-.3871062995-003
61	.1484072205-002	-.3187960181-003	61	-.4198513971-003	-.1129256944-002
70	.4832316835-003	-.1113549480-002	70	-.1464410325-002	-.3681395690-003
71	-.1426378891-002	-.4462467125-003	71	-.5859743600-003	.1084538496-002
80	-.1355731949-002	.5575955024-003	80	.7342131915-003	.1030976522-002
81	.6219734178-003	.1072683153-002	81	.1410718718-002	-.4722229233-003
90	.1442784787-002	.4129029721-003	90	.5425836364-003	-.1096092514-002
91	.6716098465-003	-.1053892121-002	91	-.1387390799-002	-.5108962636-003
99	.1445111044-002	-.4060057046-003	99	-.5353770934-003	-.1097793209-002
100	-.3881725281-003	-.1132798341-002	100	-.1491366482-002	.2941671194-003

REAL X = .1000000000+004 IMAGINARY X = -.3000000000+001

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.8341570181-002	-.5608818538-002	0	-.5636940994-002	-.8300486640-002
1	-.5628582672-002	-.8306070384-002	1	-.8347182170-002	.5600501215-002
2	-.8358381023-002	.5583849894-002	2	.5611849268-002	.8317212869-002
3	.5586707386-002	.8333864007-002	3	.8375116407-002	-.5558831348-002
4	.8397312613-002	-.5525396051-002	4	-.5553107247-002	-.8355948462-002
5	-.5510983069-002	-.8383365399-002	5	-.8424868314-002	.5483478556-002
6	-.8457656233-002	.5432998001-002	6	.5460253576-002	.8415988165-002
7	.5400822642-002	.8453663891-002	7	.8495522751-002	-.5373858747-002
8	.8538287432-002	-.5305951149-002	8	-.5332580060-002	-.8496213026-002
9	-.5255402461-002	-.8543428800-002	9	-.8585742493-002	.5229152466-002
10	-.8637652209-002	.5143327907-002	10	.5169154362-002	.8595076645-002
11	.5073689370-002	.8650893547-002	11	.8693752272-002	-.5048331827-002
12	.8753749108-002	-.4944009065-002	12	-.4968851528-002	-.8710587369-002
13	-.4854476815-002	-.8773836136-002	13	-.8817319155-002	.4830196442-002
14	-.8864108128-002	.4706724412-002	14	.4730394811-002	.8840287303-002
15	.4596430517-002	.8909557005-002	15	.8953730271-002	-.4573418877-002
16	.9025767610-002	-.4430103167-002	16	-.4452406346-002	-.8981229323-002
17	-.4298144290-002	-.9054855551-002	17	-.9099769225-002	.4276600192-002
18	-.9175250555-002	.4112734774-002	18	.4133468251-002	.9129953515-002
19	.3958206565-002	.9206006925-002	19	.9251692758-002	-.3938336142-002
20	.9328542129-002	-.3753240629-002	20	-.3772194699-002	-.9282464804-002
30	-.9972118559-002	.1289318002-002	30	.1296041108-002	.9922705876-002
31	.9862085774-003	.9957128917-002	31	.1000673165-001	-.9810199136-003
40	.9792000543-002	.2238831417-002	40	.2249719909-002	-.9743272256-002
41	.2649027520-002	-.9642293222-002	41	-.9690541043-002	-.2636148499-002
50	-.7797289850-002	-.6286864235-002	50	-.6318114952-002	.7758246794-002
51	-.6706701234-002	.7426569101-002	51	.7463974270-002	.6673494077-002
60	.3290393401-002	.9419123253-002	60	.9466353234-002	-.3273658742-002
61	.9647972807-002	-.2692585918-002	61	-.2706411378-002	-.9599799670-002
70	.3156374044-002	-.9446922533-002	70	-.9494674666-002	-.3140817044-002
71	-.9244977819-002	-.3802937382-002	71	-.3821850194-002	.9198439131-002
80	-.8792148000-002	.4712294292-002	80	.4736442306-002	.8747960113-002
81	.4007910876-002	.9099050132-002	81	.9145061882-002	-.3987415551-002
90	.9319988915-002	.3510777353-002	90	.3528375679-002	-.9272546749-002
91	.4360860199-002	-.8912648291-002	91	-.8958207184-002	-.4339019817-002
99	.9332500484-002	-.3416381283-002	99	-.3434161625-002	-.9285063849-002
100	-.2483084503-002	-.9577739269-002	100	-.9626733386-002	.2470132329-002

REAL X = .1000000000+004 IMAGINARY X = -.1000000000+002

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.9167636330+001	-.6101935368+001	0	-.6101935394+001	-.9167636293+001
1	-.6092707661+001	-.9173645951+001	1	-.9173645988+001	.6092707635+001
2	-.9185637444+001	.6074234419+001	2	.6074234445+001	.9185637407+001
3	.6046480385+001	.9203554851+001	3	.9203554888+001	-.6046480359+001
4	.9227314390+001	-.6009392765+001	4	-.6009392791+001	-.9227314353+001
5	-.5962902067+001	-.9256803602+001	5	-.9256803640+001	.5962902042+001
6	-.9291881608+001	.5906922254+001	6	.5906922279+001	.9291881570+001
7	.5841351862+001	.9332378089+001	7	.9332378127+001	-.5841351837+001
8	.9378093408+001	-.5766074464+001	8	-.5766074489+001	-.9378093370+001
9	-.5680960080+001	-.9428797438+001	9	-.9428797476+001	.5680960056+001
10	-.9484229564+001	.5585865951+001	10	.5585865975+001	.9484229525+001
11	.5480638260+001	.9544097404+001	11	.9544097443+001	-.5480638236+001
12	.9608076717+001	-.5365113239+001	12	-.5365113262+001	-.9608076678+001
13	-.5239119215+001	-.9675810045+001	13	-.9675810084+001	.5239119193+001
14	-.9746906584+001	.5102478070+001	14	.5102478091+001	.9746906544+001
15	.4955007617+001	.9820940793+001	15	.9820940833+001	-.4955007596+001
16	.9897452274+001	-.4796523448+001	16	-.4796523469+001	-.9897452234+001
17	-.4626841656+001	-.9975944407+001	17	-.9975944448+001	.4626841636+001
18	-.1005588431+002	.4445781074+001	18	.4445781093+001	.1005588427+002
19	.4253166365+001	.1013670155+002	19	.1013670160+002	-.4253166347+001
20	.1021778829+002	-.4048830673+001	20	-.4048830691+001	-.1021778825+002
30	-.1088228482+002	.1337209433+001	30	.1337209439+001	.1088228478+002
31	.9989522399+000	.1091528907+002	31	.1091528912+002	-.9989522348+000
40	.1063248897+002	.2520696272+001	40	.2520696282+001	-.1063248893+002
41	.2953318349+001	-.1051611128+002	41	-.1051611132+002	-.2953318337+001
50	-.8405737060+001	-.6907864768+001	50	-.6907864796+001	.8405737024+001
51	-.7323977270+001	.8038630924+001	51	.8038630959+001	.7323977240+001
60	.3483103953+001	.1024693044+002	60	.1024693049+002	-.3483103937+001
61	.1043424332+002	-.2849957851+001	61	-.2849957864+001	-.1043424327+002
70	.3462316925+001	-.1018294989+002	70	-.1018294993+002	-.3462316911+001
71	-.9904755412+001	-.4173681996+001	71	-.4173682013+001	.9904755368+001
80	-.9434966381+001	.5000962597+001	80	.5000962620+001	.9434966340+001
81	.4217113852+001	.9801442861+001	81	.9801442904+001	-.4217113832+001
90	.9880394628+001	.3816070958+001	90	.3816070974+001	-.9880394583+001
91	.4695198432+001	-.9483942254+001	91	-.9483942297+001	-.4695198412+001
99	.9883067193+001	-.3562905417+001	99	-.3562905434+001	-.9883067148+001
100	-.2554393283+001	-.1018007389+002	100	-.1018007393+002	.2554393270+001

REAL X = .1000000000+004 IMAGINARY X = -.1000000000+003

	FIRST KIND			SECOND KIND	
N	REAL BESSEL	IMAGINARY BESSEL	N	REAL BESSEL	IMAGINARY BESSEL
0	.1175209481+041	-.6383494695+040	0	-.6383494695+040	-.1175209481+041
1	-.6371226929+040	-.1175725152+041	1	-.1175725152+041	.6371226929+040
2	-.1176752699+041	.6346679722+040	2	.6346679722+040	.1176752699+041
3	.6309829924+040	.1178284522+041	3	.1178284522+041	-.6309829924+040
4	.1180309215+041	-.6260643289+040	4	-.6260643289+040	-.1180309215+041
5	-.6199075064+040	-.1182811552+041	5	-.1182811552+041	.6199075064+040
6	-.1185772473+041	.6125070761+040	6	.6125070761+040	.1185772473+041
7	.6038567130+040	.1189169065+041	7	.1189169065+041	-.6038567130+040
8	.1192974549+041	-.5939493325+040	8	-.5939493325+040	-.1192974549+041
9	-.5827772267+040	-.1197158255+041	9	-.1197158255+041	.5827772267+040
10	-.1201685605+041	.5703322201+040	10	.5703322201+040	.1201685605+041
11	.5566058451+040	.1206518094+041	11	.1206518094+041	-.5566058451+040
12	.1211613271+041	-.5415895373+040	12	-.5415895373+040	-.1211613271+041
13	-.5252748495+040	-.1216924732+041	13	-.1216924732+041	.5252748495+040
14	-.1222402107+041	.5076536859+040	14	.5076536859+040	.1222402107+041
15	.4887185556+040	.1227991060+041	15	.1227991060+041	-.4887185556+040
16	.1233633298+041	-.4684628440+040	16	-.4684628440+040	-.1233633298+041
17	-.4468811039+040	-.1239266589+041	17	-.1239266589+041	.4468811039+040
18	-.1244824789+041	.4239693643+040	18	.4239693643+040	.1244824789+041
19	.3997254565+040	.1250237890+041	19	.1250237890+041	-.3997254565+040
20	.1255432081+041	-.3741493574+040	20	-.3741493574+040	-.1255432081+041
30	-.1276606558+041	.4740446990+039	30	.4740446990+039	.1276606558+041
31	.8170471734+038	.1273562544+041	31	.1273562544+041	-.8170471734+038
40	.1173055362+041	.3815587668+040	40	.3815587668+040	-.1173055362+041
41	.4271372581+040	-.1151931373+041	41	-.1151931373+041	-.4271372581+040
50	-.8506775186+040	-.8169313683+040	50	-.8169313683+040	.8506775186+040
51	-.8545376286+040	.8042809607+040	51	.8042809607+040	.8545376286+040
60	.2825145642+040	.1080234016+041	60	.1080234016+041	-.2825145642+040
61	.1088750828+041	-.2154505039+040	61	-.2154505039+040	-.1088750828+041
70	.4010389143+040	-.9667631579+040	70	-.9667631579+040	-.4010389143+040
71	-.9296352534+040	-.4647418409+040	71	-.4647418409+040	.9296352534+040
80	-.8832647952+040	.4043305516+040	80	.4043305516+040	.8832647952+040
81	.3295382704+040	.9055689110+040	81	.9055689110+040	-.3295382704+040
90	.8156944962+040	.3626156874+040	90	.3626156874+040	-.8156944962+040
91	.4307431968+040	-.7727158534+040	91	-.7727158534+040	-.4307431968+040
99	.7824709187+040	-.2460370107+040	99	-.2460370107+040	-.7824709187+040
100	-.1657029675+040	-.7950762278+040	100	-.7950762278+040	.1657029675+040

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