REVIEWS AND DESCRIPTIONS OF TABLES AND BOOKS

The numbers in brackets are assigned according to the indexing system printed in Volume 22, Number 101, January 1968, page 212.

37 [2.10].—FRANK STENGER, *Tabulation of Certain Fully Symmetric Numerical Integration Formulas of Degree* 7, 9 *and* 11. Paperbound xeroxed report having 8 typewritten pages and 45 pages of tables prepared from computer output; see microfiche card, this issue.

There are three regions considered, these being (i) the hypercube $|x_i| < 1$, (ii) the hypersphere $\sum x_i^2 < 1$, and (iii) the integral over all space with weight function $\exp[-\sum x_i^2]$, respectively. For each (d, n), $d = 7, 9, 11$, $n = 1, 2, \cdots , 20$, there are listed the weights and abscissas of two n-dimensional rules of degree d for each region. Sixteen-significant-decimal figures are listed and the author claims fourteen-place accuracy. In addition, simple explicit expressions are given for the coefficients and evaluation points of the formulas of degree $d = 3$ and 5.

The underlying theory corresponding to these rules is given in [1] and the place of that theory in the current state of the art of multidimensional quadrature is discussed in Haber [2].

The rules are fully symmetric. That is, the same weight is attached to the function value $f(x_1, x_2, \cdots , x_n)$ as is attached to all distinct function values of the form $f(\pm x_{i_1}, \pm x_{i_2}, \cdots , \pm x_{i_n})$ where $i_1, i_2, \cdots , i_n$ is a permutation of $1, 2, \cdots , n$, any combination of signs being allowed.

For $d = 7, 9$ (or 11), the values of x_i are restricted to five (or seven) values 0, $\pm u$, $\pm v$ (and $\pm w$). In the cases of the hypercube and the infinite integral these include the Gaussian abscissas of that degree. Thus, the degree 9 rules involve only a subset of the points which would be required by the product Gaussian rule of the same degree. For the hypersphere u, v (and w) depend also on n.

These tables fill a gap in the literature and Dr. Stenger has performed a useful service in preparing them.

W. G.

1. J. McNAMEE & F. STENGER, "Construction of fully symmetric numerical integration formulas," *Numer. Math.*, v. 10, 1967, pp. 327–344.
2. S. HABER, "Numerical evaluation of multiple integrals," *SIAM Rev.*, v. 12, 1970, pp. 481–526.

38 [2.10, 2.25].—P. C. CHAKRAVARTI, *Integrals and Sums, Some New Formulae for their Numerical Evaluation*, The Athlone Press, University of London, 1970, x + 89 pp., 24 cm. Price $7.25.

This monograph reports the results of the author's research over a period of ten years.

The author's primary interest seems to be in constructing quadrature formulas which use finite-difference expansions. A prototype is Gregory's quadrature formula.

The formulas $Q_M(f)$ used to approximate $I(f)$ are fully symmetric. This means that they can be written in the form

$$Q_M(f) = \sum_j w_j \sum_s f(x_{js}) \ ,$$

that is, the same weight is attached to the function value $f(x)$ as is attached to all distinct function values $f(y)$ where y is obtained from x as in the above paragraph. M is the total number of evaluation points used. More specifically, the formula $Q_M(f)$ of degree $2k+1$ $(k=1,2,3,4,5)$ takes the form

(2) $\quad Q_M(f) = A_0 f[0]$

$$+ \sum_{r=1}^{k} \sum_{j_1,\ldots,j_r} A_{j_1,\ldots,j_r} \Sigma f[u_{j_1},\ldots,u_{j_r}] \ ,$$

where $[0] \equiv (0,\ldots,0)$ (n coordinates) and where (as in [1]) the symbol $[u_{j_1},\ldots,u_{j_r}]$ is called a **generator**. We define the sum on the right of (2) by

(3) $\Sigma f[u_{j_1},\ldots,u_{j_r}] = \sum_{i_1=-p}^{p} \ldots \sum_{i_n=-p}^{p} \delta(i_1,\ldots,i_n) f(u_{i_1},\ldots,u_{i_n})$

where $u_{-j} = u_j$, $u_0 = 0$. It is assumed that the generator $[u_{j_1},\ldots,u_{j_r}]$ consists of p distinct positive coordinates : k_1 of the first, ... , k_p of the p th , so that $\Sigma_{i=1}^{p} k_i = r$. Set $G = [j_1 , \ldots , j_r , j_{r+1} , \ldots , j_n]$ where the integers j_1 to j_r are defined as for the generator, and $j_{r+1} = \ldots = j_n = 0$. Then $\delta(i_1,\ldots,i_n)$ is respectively equal to 1 or zero according to whether or not the set $\{|i_1| , \ldots , |i_n|\}$ is a permulation of the elements of G . Accordingly it is unnecessary

to compute $f(u_{i_1}, \ldots, u_{i_n})$ whenever $\delta(i_1, \ldots, i_n) = 0$. Thus, while all of the evaluation points chosen lie on the n-dimensional grid containing 3^n (the degree 3 and 5 case) , 5^n (the degree 7 and 9 case) or 7^n (the degree 11 case) points only a small selection of the points are required when n is large.

The formula (2) is of degree $2k+1$. This means that $I(f) = Q_M(f)$ whenever

(4)
$$f(\underline{x}) = \prod_{i=1}^{n} (x^i)^{s_i}$$

where the s_i are non-negative integers such that $\sum_{i=1}^{n} s_i \leq 2k+1$. Clearly $I(\prod_{i=1}^{n}(x^i)^{s_i})$ is zero if any s_i is an odd integer. Also, $I(\prod_{i=1}^{n}(x^i)^{s_i})$ depends only on n and the integers s_i , and not on the ordering of the s_i . In order to describe the construction of the formulas, we shall therefore set $I_0 = I(1)$, $I_2 = I((x^1)^2)$, $I_{2,2} = I((x^1)^2(x^2)^2)$, $I_4 = I((x^1)^4)$. etc.

Although the title of this report indicates that we tabulate formulas of degree 7, 9 and 11, we shall describe the construction of formulas of degree 3 and 5 as well, for sake of completeness. We have not tabulated the degree 3 and 5 formulas, since their coefficients A_0 , A_{j_1} , $\ldots$, $_{j_r}$ can be very simply expressed.

(a) <u>Formulas of degree 3</u>

These formulas take the form

(5) $I(f) \approx = A_0 f[0] + A_1 \sum f[u]$

Here u is the positive zero of the polynomial

(6) $$I_0 x^2 - I_2 .$$

A_0 and A_1 are given by

(7) $$A_0 = (1-n)I_0 , \quad A_1 = I_0 / (2u^2) .$$

There is one point associated with A_0 and 2n points with A_1 . Thus $M = 2n + 1$.

(b) <u>Formulas of degree 5</u>

These formulas take the form

(8) $$I(f) \cong A_0 f[0] + A_1 \Sigma f[u] + A_{11} \Sigma f[u,u]$$

Here u is the positive zero of the polynomial

(9) $$(I_2 x^2 - I_4) .$$

The A's are given by

(10) $$A_1 = \tfrac{1}{2} I_2^2 / I_4 , \quad A_0 = I_0 - 2A_1$$
$$A_{11} = 0 \quad \text{if} \quad n = 1 ,$$

while if $n > 1$, by

(10)' $$A_{11} = I_{22} / (4u^4)$$
$$A_1 = \tfrac{1}{2}[I_2^2 / I_4 - 4(n-1)A_{11}]$$
$$A_0 = I_0 - 2n A_1 - 2n(n-1)A_{11}$$

There is one point associated with A_0 , 2n points with A_1 , and $2n(n-1)$ points with A_{11} . Thus $M = 2n^2 + 1$.

General remarks concerning formulas of degree 7, 9 and 11

These are valid for the n-sphere and for integrals with property $\underline{P}$. Property $\underline{P}$ implies that the formula

$$(11); \qquad \int_{R^n} w(\underline{x}) \prod_{i=1}^{r} (x^i)^{k_k} dV(\underline{x}) = \alpha_r \prod_{i=1}^{r} I_{k_i}$$

holds for every positive integer r in $1 \leqslant r \leqslant n$, where $\alpha_r > 0$ and does not depend on the k_i .

All entries in each table refer to either the numbers u , v or u , v , w in the formula, or else the coefficients $A_{j_1}, \ldots, j_r$, except for ER . We now briefly describe the entry ER . For the formulas $Q_M(f)$ of degree 7 ,

$$ER = I((x^1)^6) - Q_M((x^1)^6) ;$$

while for the formulas Q_M of degree 9 and 11 ,

$$ER = I((x^1)^8) - Q_M((x^1)^8) .$$

The numbers $I((x^1)^6)$ are not used in the construction of the formulas of degree 7 , and the numbers $I((x^1)^8)$ are not used in the construction of the formulas of degree 9 and 11. We have used orthogonal polynomials to construct the formulas, and theoretically we should therefore have ER = 0 . We have tabulated ER both as a check for ourselves, and to get a rough idea of the accuracy of the computed coefficients. On comparing the magnitude of the errors it appears that the largest

coefficient (denote its magnitude by m has an error of at

most 2 in the 16'th significant figure. Thus any other

coefficient of magnitude S has at least $16-\log_{10}(m)$ correct

significant figures. There is of course the additional possi-

bility of an error which occurred while transferring the data

from computer memory, to tape, to the memory, to cards, and

finally to paper on an IBM 407. We have not detected any

errors of this nature yet. All of the data is output in E

format.

The reader is warned regarding the following minor flaws

of the table. For $n = 1$, all formulas of degree 7 and 11

should have their entries A_0 identically equal to zero. The

degree 7 and 11 formulas are doubly listed for $n = 1$ and

$n = 2$, and the degree 9 formulas are doubly listed for $n = 1$,

$n = 2$ and $n = 3$. Although a few entries have exact decimal

representation, they are listed as repeating decimals, for

example, n cube, degree 9 , $n = 2, 3$. We remark that for the

n-cube and infinite n-space the coordinates u, v and u, v, w

are independent of n , while for the n-sphere, these coordinates

are different for each n .

(c) <u>Formulas of degree 7</u>

These formulas are of the form

(12) $I(f) \doteq A_0 f[0] + A_1 \Sigma f[u] + A_2 \Sigma f[v] + A_{11} \Sigma f[u,u] +$

$+ A_{22} \Sigma f[v, v] + A_{111} \Sigma f[u,u,u]$

where $A_{111} = 0$ if $n < 3$, and $A_{11} = 0$ if $n = 1$. In (12) u and v are the positive zeros of the polynomial

(13) $$ax^4 + bx^2 - 1$$

where a and b are given by the solution of

(14)
$$\begin{pmatrix} I_4 & I_2 \\ I_6 & I_4 \end{pmatrix} \begin{pmatrix} a \\ b \end{pmatrix} = \begin{pmatrix} I_0 \\ I_2 \end{pmatrix}$$

The numbers u, v and A are given in the table, which follows. Except for $n = 1,2$, there are two sets of formulas for each $n = 1,\ldots,20$. There is one point associated with A_0, $2n$ points with each of A_1 and A_2, $2n(n-1)$ points with each of A_{11} and A_{22}, and $4n(n-1)(n-2)/3$ points with A_{111}. Thus $M = (4n^3 + 8n + 3)/3$.

(d) **Formulas of degree 9**

These formulas take the form

(15) $I(f) = A_0 f[0] + A_1 \Sigma f[u] + A_2 \Sigma f[v] + A_{11} \Sigma f[u,u] +$

$+ A_{12} \Sigma f[u,v] + A_{22} \Sigma f[v,v] + A_{111} \Sigma f[u,u,u]$

$+ A_{222} \Sigma f[v,v,v] + A_{1111} \Sigma f[u,u,u,u]$

Here u and v are the positive zeros of the polynomial

(16) $$ax^5 + bx^3 - x$$

where a and b are given by the solution of

(17)
$$\begin{pmatrix} I_6 & I_4 \\ I_8 & I_6 \end{pmatrix} \begin{pmatrix} a \\ b \end{pmatrix} = \begin{pmatrix} I_2 \\ I_4 \end{pmatrix}$$

The numbers u and v and the coefficients A are tabulated in the table which follows. Except for $n = 1,2,3$, two sets of formulas are tabulated for $n = 1,2,\ldots,20$. The coefficients $A_{1_1},\ldots,_{1_r}$ are zero if $n < r$. There is one point associated with A_0, $2n$ points with each of A_1, A_2 and A_3, $2n(n-1)$ points with each of A_{11} and A_{22}, $4n(n-1)$ points with A_{12}, $4n(n-1)(n-2)/3$ points with each of A_{111} and A_{222}, and $2n(n-1)(n-2)(n-3)/3$ points with A_{1111}. Thus $M = (2n^4 - 4n^3 + 22n^2 + 16n + 3)/3$.

(3) Formulas of degree 11

These formulas take the form

(18) $I(f) = A_0 f[0] + A_1 \Sigma f[u] + A_2 \Sigma f [v] + A_3 \Sigma f [w] +$

$+ A_{11} \Sigma f [u,u] + A_{22} \Sigma f [v,v] + A_{33} \Sigma f [w,w] +$

$+ A_{12} \Sigma f [u,v] + A_{13} \Sigma f [u,w] + A_{111} \Sigma f [u,u,u,] +$

$+ A_{222} \Sigma f [v,v,v] + A_{333} \Sigma f [w,w,w,] + A_{112} \Sigma f [u,u,v] +$

$+ A_{1111} \Sigma f [u,u,u,u] + A_{2222} \Sigma f [v,v,v,v] +$

$+ A_{11111} \Sigma f [u,u,u,u,u]$

The numbers u, v and w in (18) are the positive zeros of the polynomial

(19) $$ax^6 + bx^4 + cx^2 - 1$$

where a, b and c are given by the solution of

(20) $$\begin{pmatrix} I_6 & I_4 & I_2 \\ I_8 & I_6 & I_4 \\ I_{10} & I_8 & I_6 \end{pmatrix} \begin{pmatrix} a \\ b \\ c \end{pmatrix} = \begin{pmatrix} I_0 \\ I_2 \\ I_4 \end{pmatrix}$$

Except when $n = 1$ and 2 there are six different* formulas obtainable from (18) by interchanging the roles of u, v and w . Of these we have tabulated only two for each n (except $n = 1,2$) in the table which follows. The coefficients $A_{i_1,\dots,i_r}$ are zero whenever $r > n$. There is one point associated with A_0 , $2n$ points with each of A_1 , A_2 and A_3 , $2n(n-1)$ points with each of A_{11} , A_{22} and A_{33} , $4n(n-1)$ points with each of A_{12} and A_{13} , $4n(n-1)(n-2)/3$ points with each of A_{111} , A_{222} and A_{333} , $4n(n-1)(n-2)$ points with A_{112} , $2n(n-1)(n-2)(n-3)/3$ points with each of A_{1111} and A_{2222} , and $4n(n-1)(n-2)(n-3)(n-4)/15$ points with A_{11111} . Thus

$$M = (4n^5 - 20n^4 + 140n^3 - 130n^2 + 96n + 15)/15 .$$

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*Actually, by changing the notation in (18) it is possible to obtain 162 different formulas similar to (18), all which require the same number of evaluation points.

References

[1]   McNamee, J. and F. Stenger, Construction of Fully Symmetric
       Numerical Integration Formulas, Num. Math. 10 (1967) 327-344.

[2]   Haber, S., Numerical Evaluation of Multiple Integrals;
       SIAM Review, 12 (1970) 481-526.

[3]   Lyness, J. N., Symmetric Integration rules for hypercubes,
       III Construction of integration rules using null rules,
       Math. Comp. 19 (1965) 471-476.

N = 1

U	=	.36113 63115 940530 E 00
V	=	.33998 10435 848560 E 00
A0	=	-.31086 24468 950438 E-14
A1	=	.34785 48451 374535 E 00
A2	=	.65214 51546 625481 E 00
A11	=	.00000 00000 000000 E 00
A22	=	.00000 00000 000000 E 00
A111	=	.00000 00000 000000 E 00
ER	=	.55511 15123 125783 E-16

U	=	.33998 10435 848560 E 00
V	=	.86113 63115 940530 E 00
A0	=	-.31086 24468 950438 E-14
A1	=	.65214 51548 625481 E 00
A2	=	.34785 48451 374535 E 00
A11	=	.00000 00000 000000 E 00
A22	=	.00000 00000 000000 E 00
A111	=	.00000 00000 000000 E 00
ER	=	.55511 15123 125783 E-16

N = 2

U	=	.86113 63115 940530 E 00
V	=	.33998 10435 848560 E 00
A0	=	.41481 48148 148168 E 01
A1	=	.38298 44083 467266 E 00
A2	=	-.24570 58482 420813 E 01
A11	=	.15636 26409 640901 E 00
A22	=	.18806 74396 072955 E 01
A111	=	.00000 00000 000000 E 00
ER	=	.22204 46049 250313 E-15

U	=	.33998 10435 848560 E 00
V	=	.86113 63115 940530 E 00
A0	=	.41481 48148 148166 E 01
A1	=	-.24570 58482 420813 E 01
A2	=	.38298 44083 467267 E 00
A11	=	.18806 74396 072955 E 01
A22	=	.15636 26409 640901 E 00
A111	=	.00000 00000 000000 E 00
ER	=	.22204 46049 250313 E-15

N = 3

U	=	0.33998 10435 848558 E 00
V	=	0.86113 63115 940528 E 00
A0	=	-0.15897 71046 840297 E 03
A1	=	0.83496 18223 732593 E 02
A2	=	0.14051 82528 370928 E 00
A11	=	-0.44205 14960 108378 E 02
A22	=	0.31272 52819 281800 E 00
A111	=	0.23983 24919 661485 E 02
ER	=	0.44408 92098 500627 E-15

U	=	0.86113 63115 940528 E 00
V	=	0.33998 10435 848558 E 00
A0	=	0.32162 28986 921437 E 02
A1	=	0.50381 77626 744513 E 00
A2	=	-0.12436 81454 913347 E 02
A11	=	0.13107 55270 095006 E 00
A22	=	0.37613 48792 145915 E 01
A111	=	0.90824 87745 933967 E-01
ER	=	0.44408 92098 500627 E-15

N = 4

U	=	0.33998 10435 848558 E 00
V	=	0.86113 63115 940528 E 00
A0	=	-0.13873 72393 027794 E 04
A1	=	0.53567 89564 519056 E 03
A2	=	-0.96986 46220 385306 E 00
A11	=	-0.18434 32950 886270 E 03
A22	=	0.62545 05638 563598 E 00
A111	=	0.47966 49830 322971 E 02
ER	=	0.44408 92098 500626 E-14

U	=	0.86113 63115 940528 E 00
V	=	0.33998 10435 848558 E 00
A0	=	0.14174 27633 981587 E 03
A1	=	0.12099 32436 985618 E 01
A2	=	-0.39919 02426 685060 E 02
A11	=	-0.10114 84558 183575 E 00
A22	=	0.75226 97584 291829 E 01
A111	=	0.18164 97549 186794 E 00
ER	=	0.11102 23024 625157 E-14

N = 5

U	=	0.33998 10435 848558 E 00
V	=	0.86113 63115 940528 E 00
A0	=	-0.71507 87891 064897 E 04
A1	=	0.21924 63084 004158 E 04
A2	=	-0.44415 31499 502508 E 01
A11	=	-0.56055 25855 501724 E 03
A22	=	0.12509 01127 712720 E 01
A111	=	0.95932 99678 645941 E 02
ER	=	0.44408 92098 500626 E-14

U	=	0.86113 63115 940528 E 00
V	=	0.33998 10435 848558 E 00
A0	=	0.49478 78910 648668 E 03
A1	=	0.42776 56736 594102 E 01
A2	=	-0.10992 88388 708686 E 03
A11	=	-0.92889 59313 114327 E 00
A22	=	0.15045 39516 858368 E 02
A111	=	0.36329 95098 373588 E 00
ER	=	0.22204 46049 250313 E-14

N = 6

U   = 0.33998 10435 848558 E 00
V   = 0.86113 63115 940526 E 00
A0 = -0.29063 00341 611143 E 05
A1 = 0.73946 00484 500680 E 04
A2 = -0.13886 66750 985586 E 02
A11 = -0.15048 37158 246183 E 04
A22 = 0.25018 02255 425440 E 01
A111= 0.19186 59935 729188 E 03
ER = 0.42632 56414 560601 E-13

U   = 0.86113 63115 940528 E 00
V   = 0.33998 10435 848558 E 00
A0 = 0.15192 99712 407610 E 04
A1 = 0.15177 29327 713281 E 02
A2 = -0.28003 92584 160716 E 03
A11 = -0.33109 89901 972299 E 01
A22 = 0.30090 79033 716732 E 02
A111= 0.72659 90196 747174 E 00
ER = 0.71054 27357 601000 E-14

N = 7

U   = 0.33998 10435 848558 E 00
V   = 0.86113 63115 940528 E 00
A0 = -0.10273 74008 452791 E 06
A1 = 0.22343 47755 056946 E 05
A2 = -0.37780 54404 141353 E 02
A11 = -0.37771 38290 784042 E 04
A22 = 0.50036 04510 850875 E 01
A111= 0.38373 19871 458375 E 03
ER = 0.21316 28207 280301 E-13

U   = 0.86113 63115 940528 E 00
V   = 0.33998 10435 848558 E 00
A0 = 0.43006 60104 537750 E 04
A1 = 0.49411 33831 955255 E 02
A2 = -0.68044 16781 808137 E 03
A11 = -0.95283 75882 643469 E 01
A22 = 0.60181 58067 433473 E 02
A111= 0.14531 98039 349435 E 01
ER = 0.28421 70943 040401 E-13

N = 8

U   = 0.33998 10435 848558 E 00
V   = 0.86113 63115 940528 E 00
A0 = -0.33101 43790 011887 E 06
A1 = 0.62865 36416 144174 E 05
A2 = -0.95575 50612 623035 E 02
A11 = -0.90892 04530 151434 E 04
A22 = 0.10007 20902 170176 E 02
A111= 0.76746 39742 916750 E 03
ER = 0.17053 02565 824241 E-12

U   = 0.86113 63115 940528 E 00
V   = 0.33998 10435 848558 E 00
A0 = 0.11507 41603 822448 E 05
A1 = 0.14856 17644 844746 E 03
A2 = -0.16016 09679 058966 E 04
A11 = -0.24869 54392 268468 E 02
A22 = 0.12036 31613 486695 E 03
A111= 0.29063 96078 698870 E 01
ER = 0.71054 27357 601000 E-13

N = 9

U   = 0.33998 10435 848558 E 00
V   = 0.86113 63115 940528 E 00
A0 = -0.99802 09147 813443 E 06
A1 = 0.16822 72582 378226 E 06
A2 = -0.23117 98483 392677 E 03
A11 = -0.21248 26495 746957 E 05
A22 = 0.20014 41804 340351 E 02
A111= 0.15349 27948 583351 E 04
ER = 0.36948 22225 952521 E-12

U   = 0.86113 63115 940528 E 00
V   = 0.33998 10435 848558 E 00
A0 = 0.29544 47033 689549 E 05
A1 = 0.41985 28732 892787 E 03
A2 = -0.36846 72003 512594 E 04
A11 = -0.61364 67216 016480 E 02
A22 = 0.24072 63226 973380 E 03
A111= 0.58127 92157 397739 E 01
ER = 0.19895 19660 128281 E-12

N = 10

U   = 0.33998 10435 848558 E 00
V   = 0.86113 63115 940528 E 00
A0 = -0.28624 10994 613369 E 07
A1 = 0.43372 69998 941905 E 06
A2 = -0.54241 73688 521533 E 03
A11 = -0.48636 24170 927255 E 05
A22 = 0.40028 83608 680706 E 02
A111= 0.30698 55897 166700 E 04
ER = 0.16847 73309 241817 E-11

U   = 0.86113 63115 940528 E 00
V   = 0.33998 10435 848558 E 00
A0 = 0.73490 10572 446362 E 05
A1 = 0.11316 66772 478399 E 04
A2 = -0.83322 49297 814574 E 04
A11 = -0.14508 05129 499207 E 03
A22 = 0.40145 26453 946778 E 03
A111= 0.11625 58431 479548 E 02
ER = 0.17053 02565 824241 E-12

N = 11

U	=	0.33998 10435 848558 E 00
V	=	0.86113 63115 940528 E 00
A0	=	-0.78954 47716 668238 E 07
A1	=	0.10865 57813 802805 E 07
A2	=	-0.12449 50082 051531 E 04
A11	=	-0.10955 19070 072119 E 06
A22	=	0.80057 67217 361413 E 02
A111	=	0.61397 11794 333400 E 04
ER	=	0.10231 81539 494544 E-11

U	=	0.86113 63115 940528 E 00
V	=	0.33998 10435 848558 E 00
A0	=	0.17828 03092 607933 E 06
A1	=	0.29402 60271 274843 E 04
A2	=	-0.18590 30917 720787 E 05
A11	=	-0.33846 33631 590232 E 03
A22	=	0.96290 52907 893563 E 03
A111	=	0.23251 16862 959097 E 02
ER	=	0.56843 41886 080800 E-12

N = 12

U	=	0.33998 10435 848558 E 00
V	=	0.86113 63115 940528 E 00
A0	=	-0.21106 15707 160913 E 08
A1	=	0.26604 40949 989123 E 07
A2	=	-0.28101 30852 797491 E 04
A11	=	-0.24366 26611 917574 E 06
A22	=	0.16011 53443 472283 E 03
A111	=	0.12279 42358 866680 E 05
ER	=	0.20691 00446 533412 E-10

U	=	0.86113 63115 940528 E 00
V	=	0.33998 10435 848558 E 00
A0	=	0.42378 43308 682874 E 06
A1	=	0.74203 83344 222506 E 04
A2	=	-0.41032 23951 757311 E 05
A11	=	-0.76993 14008 364099 E 03
A22	=	0.19258 10581 578709 E 04
A111	=	0.46502 33725 918193 E 02
ER	=	0.25011 10429 875551 E-11

N = 13

U	=	0.33998 10435 848558 E 00
V	=	0.86113 63115 940528 E 00
A0	=	-0.54987 32856 396150 E 08
A1	=	0.63937 67933 454610 E 07
A2	=	-0.62607 23082 983940 E 04
A11	=	-0.53644 30167 381816 E 06
A22	=	0.32023 06886 944564 E 03
A111	=	0.24988 84717 733361 E 05
ER	=	0.31832 31456 205248 E-11

U	=	0.86113 63115 940528 E 00
V	=	0.33998 10435 848558 E 00
A0	=	0.99051 90824 797702 E 06
A1	=	0.18292 51098 986412 E 05
A2	=	-0.89767 72136 146121 E 05
A11	=	-0.17258 72150 709548 E 04
A22	=	0.38516 21163 157426 E 04
A111	=	0.93004 67451 036386 E 02
ER	=	0.50022 20859 751102 E-11

N = 14

U	=	0.33998 10435 848558 E 00
V	=	0.86113 63115 940528 E 00
A0	=	-0.14020 66098 126428 E 09
A1	=	0.15129 77871 128062 E 08
A2	=	-0.13802 36892 074564 E 05
A11	=	-0.11711 21422 185698 E 07
A22	=	0.64046 13773 889124 E 03
A111	=	0.49117 69435 466722 E 05
ER	=	0.75488 06024 715301 E-10

U	=	0.86113 63115 940528 E 00
V	=	0.33998 10435 848558 E 00
A0	=	0.22824 56923 753223 E 07
A1	=	0.44232 54797 871333 E 05
A2	=	-0.19494 19273 755525 E 06
A11	=	-0.38237 62999 492552 E 04
A22	=	0.77032 42326 314864 E 04
A111	=	0.18600 93490 367277 E 03
ER	=	0.13642 42052 659392 E-10

N = 15

U	=	0.33998 10435 848558 E 00
V	=	0.86113 63115 940528 E 00
A0	=	-0.35102 68557 908658 E 09
A1	=	0.35336 98466 614136 E 08
A2	=	-0.30166 58335 104699 E 05
A11	=	-0.25387 13621 790064 E 07
A22	=	0.12809 22754 777825 E 04
A111	=	0.98235 38870 933442 E 05
ER	=	0.56388 67150 092153 E-10

U	=	0.86113 63115 940528 E 00
V	=	0.33998 10435 848558 E 00
A0	=	0.51958 11050 123811 E 07
A1	=	0.10524 82227 476907 E 06
A2	=	-0.42069 68240 563658 E 06
A11	=	-0.83915 63395 132016 E 04
A22	=	0.15406 48465 262979 E 05
A111	=	0.37201 86980 734553 E 03
ER	=	0.41836 75628 155470 E-10

N = 16

U	=	0.33998 10435 848558 E 00
V	=	0.86113 63115 940528 E 00
A0	= -0.86515 22117 245249 E 09
A1	=	0.81614 70692 911766 E 08
A2	= -0.65456 85772 120508 E 05
A11	= -0.54703 68798 417467 E 07
A22	=	0.25618 45509 555648 E 04
A111	=	0.19647 07774 186689 E 06
ER	=	0.17098 50039 333105 E-09

U	=	0.86113 63115 940528 E 00
V	=	0.33998 10435 848558 E 00
A0	=	0.11703 58357 637299 E 08
A1	=	0.24703 88486 604971 E 06
A2	= -0.90301 95867 232411 E 06
A11	= -0.18271 20158 255785 E 05
A22	=	0.30812 96930 525923 E 05
A111	=	0.74403 73961 469105 E 03
ER	=	0.54569 68210 637566 E-10

N = 17

U	=	0.33998 10435 848550 E 00
V	=	0.86113 63115 940528 E 00
A0	= -0.21033 87411 796599 E 10
A1	=	0.18668 26552 712546 E 09
A2	= -0.14116 10974 806326 E 06
A11	= -0.11726 62070 650961 E 08
A22	=	0.51236 91019 111302 E 04
A111	=	0.39294 15548 373376 E 06
ER	=	0.92404 66170 012951 F-09

U	=	0.86113 63115 940528 E 00
V	=	0.33998 10435 848558 E 00
A0	=	0.26119 51964 844032 E 08
A1	=	0.57311 48028 204006 E 06
A2	= -0.19292 91050 667527 E 07
A11	= -0.39518 55274 970335 E 05
A22	=	0.61625 93861 051867 E 05
A111	=	0.14880 74792 293822 E 04
ER	=	0.10913 93642 127514 E-09

N = 18

U	=	0.33998 10435 848558 E 00
V	=	0.86113 63115 940528 E 00
A0	= -0.50529 99841 289615 E 10
A1	=	0.42341 53258 072463 E 09
A2	= -0.30281 69590 377125 E 06
A11	= -0.25025 00763 236858 E 08
A22	=	0.10247 38203 822260 E 05
A111	=	0.78588 31096 746751 E 06
ER	=	0.38579 28887 691713 E-09

U	=	0.86113 63115 940528 E 00
V	=	0.33998 10435 848558 E 00
A0	=	0.57816 79417 847880 E 08
A1	=	0.13162 08414 977965 E 07
A2	= -0.41050 85855 777119 E 07
A11	= -0.84989 40466 858195 E 05
A22	=	0.12325 18772 210372 E 06
A111	=	0.29761 49584 587643 E 04
ER	=	0.48810 93720 773780 E-09

N = 19

U	=	0.33998 10435 848558 E 00
V	=	0.86113 63115 940528 E 00
A0	= -0.12011 14192 972950 E 11
A1	=	0.95321 77470 213644 E 09
A2	= -0.64662 34462 283165 E 06
A11	= -0.53193 54770 343584 E 08
A22	=	0.20494 76407 644522 E 05
A111	=	0.15717 66219 349351 E 07
ER	=	0.96042 64050 722125 E-09

U	=	0.86113 63115 940528 E 00
V	=	0.33998 10435 848558 E 00
A0	=	0.12704 75795 072211 E 09
A1	=	0.29961 83645 306960 E 07
A2	= -0.87031 79220 438419 E 07
A11	= -0.18188 34076 755145 E 06
A22	=	0.24650 37544 420753 E 06
A111	=	0.59522 99169 175285 E 04
ER	=	0.66938 81005 048752 E-09

N = 20

U	=	0.33998 10435 848558 E 00
V	=	0.86113 63115 940528 E 00
A0	= -0.28283 10103 678400 E 11
A1	=	0.21317 83814 611266 E 10
A2	= -0.13752 25948 762400 E 07
A11	= -0.11267 41602 842691 E 09
A22	=	0.40989 52815 289044 E 05
A111	=	0.31435 32438 698702 E 07
ER	=	0.28947 51600 700000 E-09

U	=	0.86113 63115 940528 E 00
V	=	0.33998 10435 848558 E 00
A0	=	0.27734 48673 023924 E 09
A1	=	0.67675 19314 669381 E 07
A2	= -0.18392 37345 864508 E 08
A11	= -0.38757 60120 277300 E 06
A22	=	0.49300 75088 841486 E 06
A111	=	0.11904 59833 835057 E 05
ER	=	0.35700 96970 587200 E-09

N = 1

```
U    =  .90617 98459 386640 E 00      U    =  .53846 93101 056830 E 00
V    =  .53846 93101 056830 E 00      V    =  .90617 98459 386640 E 00
A0   =  .56888 88888 888912 E 00      A0   =  .56888 88888 888912 E 00
A1   =  .23692 68850 561893 E 00      A1   =  .47862 86704 993652 E 00
A2   =  .47862 86704 993652 E 00      A2   =  .23692 68850 561893 E 00
A11  =  .00000 00000 000000 E 00      A11  =  .00000 00000 000000 E 00
A22  =  .00000 00000 000000 E 00      A22  =  .00000 00000 000000 E 00
A12  =  .00000 00000 000000 E 00      A12  =  .00000 00000 000000 E 00
A111 =  .00000 00000 000000 E 00      A111 =  .00000 00000 000000 E 00
A222 =  .00000 00000 000000 E 00      A222 =  .00000 00000 000000 E 00
A1111=  .00000 00000 000000 E 00      A1111=  .00000 00000 000000 E 00
ER   =  .83266 72684 688674 E-16      ER   =  .83266 72684 688674 E-16
```

N = 2

```
U    =  .90617 98459 386640 E 00      U    =  .53846 93101 056830 E 00
V    =  .53846 93101 056830 E 00      V    =  .90617 98459 386640 E 00
A0   =  .32363 45679 012476 E 00      A0   =  .32363 45679 012496 E 00
A1   =  .13478 50723 875214 E 00      A1   =  .27228 65325 507450 E 00
A2   =  .27228 65325 507459 E 00      A2   =  .13478 50723 875214 E 00
A11  =  .56134 34886 242880 E-01      A11  =  .22908 54042 239929 E 00
A22  =  .22908 54042 239925 E 00      A22  =  .56134 34886 242880 E-01
A12  =  .11339 99999 999998 E 00      A12  =  .11339 99999 999998 E 00
A111 =  .00000 00000 000000 E 00      A111 =  .00000 00000 000000 E 00
A222 =  .00000 00000 000000 E 00      A222 =  .00000 00000 000000 E 00
A1111=  .00000 00000 000000 E 00      A1111=  .00000 00000 000000 E 00
ER   =  .11102 23024 625157 E-15      ER   =  .15265 56658 859590 E-15
```

N = 3

```
U    =  .90617 98459 386640 E 00      U    =  .53846 93101 056830 E 00
V    =  .53846 93101 056830 E 00      V    =  .90617 98459 386640 E 00
A0   = -.22577 86556 927246 E 01      A0   = -.22577 86556 927235 E 01
A1   = -.25240 56575 947320 E 00      A1   =  .17049 33503 959604 E 01
A2   =  .17049 33503 959604 E 01      A2   = -.25240 56575 947330 E 00
A11  =  .34187 90118 488838 E-01      A11  = -.80698 02194 290547 E 00
A22  = -.80698 02194 290556 E 00      A22  =  .34187 90118 488838 E-01
A12  =  .22679 99999 999995 E 00      A12  =  .22679 99999 999996 E 00
A111 =  .39040 39826 998461 E-01      A111 =  .63257 55139 385203 E 00
A222 =  .63257 55139 385203 E 00      A222 =  .39040 39826 998461 E-01
A1111=  .00000 00000 000000 E 00      A1111=  .00000 00000 000000 E 00
ER   =  .11102 23024 625157 E-15      ER   =  .11102 23024 625157 E-15
```

N = 4

```
U    = 0.53846 93101 056828 E 00      U    = 0.90617 98459 386638 E 00
V    = 0.90617 98459 386638 E 00      V    = 0.53846 93101 056828 E 00
A0   = 0.43227 02424 394818 E 01      A0   = -0.23190 64767 664278 E 02
A1   = -0.31826 98035 355542 E 01     A1   = -0.14536 54715 749514 E 01
A2   = -0.12364 39733 769146 E 01     A2   = 0.10701 19199 714363 E 02
A11  = 0.28426 82521 637384 E 01      A11  = 0.20821 70028 002192 E-01
A22  = -0.87785 79071 016191 E-01     A22  = -0.41442 62494 612201 E 01
A12  = 0.45360 00000 000003 E 00      A12  = 0.45360 00000 000003 E 00
A111 = -0.22283 21480 247751 E 01     A111 = 0.23777 05104 487724 E-01
A222 = 0.78080 79653 996916 E-01      A222 = 0.12651 51027 877842 E 01
A1111= 0.17467 36254 062397 E 01      A1111= 0.27151 87274 754596 E-01
ER   = 0.22204 46049 250313 E-15      ER   = 0.22204 46049 250313 E-15
```

N = 5

U =	0.53846 93101 056828 E 00	
V =	0.90617 98459 386638 E 00	
A0 =	0.14591 81408 420275 E 03	
A1 =	-0.65324 87806 424098 E 02	
A2 =	-0.33114 89932 377891 E 01	
A11 =	0.28572 54099 676493 E 02	
A22 =	-0.48789 47675 802007 E 00	
A12 =	0.90720 00000 000005 E 00	
A111 =	-0.11443 58797 674509 E 02	
A222 =	0.15616 15930 799384 E 00	
A1111=	0.34934 72508 124793 E 01	
ER =	0.22204 46049 250313 E-15	

U =	0.90617 98459 386638 E 00
V =	0.53846 93101 056828 E 00
A0 =	-0.12921 53601 683487 E 03
A1 =	-0.50492 09788 220833 E 01
A2 =	0.46466 24219 575240 E 02
A11 =	0.16375 01783 609026 E 00
A22 =	-0.13349 12910 073257 E 02
A12 =	0.90720 00000 000005 E 00
A111 =	-0.61053 38890 042932 E-01
A222 =	0.25303 02055 754083 E 01
A1111=	0.54303 74549 509192 E-01
FR =	0.24424 90654 175344 E-14

N = 6

U =	0.53846 93101 056828 E 00
V =	0.90617 98459 386638 E 00
A0 =	0.10979 64065 902641 E 04
A1 =	-0.39601 29840 594987 E 03
A2 =	-0.70509 08049 795452 E 01
A11 =	0.13086 72139 655085 E 03
A22 =	-0.16004 35907 480155 E 01
A12 =	0.18144 00000 000001 E 01
A111 =	-0.36861 06598 598934 E 02
A222 =	0.31232 31861 598767 E 00
A1111=	0.69869 45016 249586 E 01
ER =	0.19539 92523 340276 E-13

U =	0.90617 98459 386638 E 00
V =	0.53846 93101 056828 E 00
A0 =	-0.55283 69401 596132 E 03
A1 =	-0.15739 50732 901019 E 02
A2 =	0.16294 20172 404679 E 03
A11 =	0.10061 43876 284258 E 01
A22 =	-0.36819 46642 448149 E 02
A12 =	0.18144 00000 000001 E 01
A111 =	-0.33932 17597 812264 E 00
A222 =	0.50606 04111 508166 E 01
A1111=	0.10860 74909 901839 E 00
ER =	0.35527 13678 800501 E-14

N = 7

U =	0.53846 93101 056828 E 00
V =	0.90617 98459 386638 E 00
A0 =	0.35797 10480 683963 E 04
A1 =	-0.17294 32072 128940 E 04
A2 =	-0.12459 08698 039123 E 02
A11 =	0.46507 42520 049708 E 03
A22 =	-0.44501 64559 599818 E 01
A12 =	0.36288 00000 000003 E 01
A111 =	-0.10166 99120 369770 E 03
A222 =	0.62464 63723 197533 E 00
A1111=	0.13973 89003 249917 E 02
ER =	0.67501 55939 720950 E-13

U =	0.90617 98459 386638 E 00
V =	0.53846 93101 056828 E 00
A0 =	-0.28880 27975 886070 E 04
A1 =	-0.47213 48409 725016 E 02
A2 =	0.84839 83335 700680 E 03
A11 =	0.42384 34719 614892 E 01
A22 =	-0.93881 34929 499562 E 02
A12 =	0.36288 00000 000003 E 01
A111 =	-0.11130 73483 523188 E 01
A222 =	0.10121 20822 301635 E 02
A1111=	0.21721 49819 803678 E 00
EP =	0.71054 27357 601000 E-14

N = 8

U =	0.53846 93101 056828 E 00
V =	0.90617 98459 386638 E 00
A0 =	0.24133 92776 772267 E 05
A1 =	-0.63706 17889 093562 E 04
A2 =	-0.16635 54474 382542 E 02
A11 =	0.14486 19272 417843 E 04
A22 =	-0.11398 91460 847865 E 02
A12 =	0.72576 00000 000004 E 01
A111 =	-0.25923 53842 039505 E 03
A222 =	0.12492 92744 639507 E 01
A1111=	0.27947 78006 499834 E 02
ER =	0.63948 84621 840900 E-13

U =	0.90617 98459 386638 E 00
V =	0.53846 93101 056828 E 00
A0 =	-0.66810 24345 439444 E 04
A1 =	-0.13827 59346 528314 E 03
A2 =	0.14547 60529 105970 E 04
A11 =	0.14666 88322 916549 E 02
A22 =	-0.22824 75314 820571 E 03
A12 =	0.72576 00000 000004 E 01
A111 =	-0.30950 06894 967847 E 01
A222 =	0.20242 41644 603271 E 02
A1111=	0.43442 99639 607356 E 00
ER =	0.42632 56414 560601 E-13

N = 9

```
U    =  0.53846 93101 056828 E 00       U    =  0.90617 98459 386638 E 00
V    =  0.90617 98459 386638 E 00       V    =  0.53846 93101 056828 E 00
A0   =  0.90452 86015 869906 E 05       A0   = -0.20480 96744 868474 E 05
A1   = -0.21085 79082 253012 E 05       A1   = -0.39596 07368 054387 E 03
A2   = -0.67114 89096 618092 E 01       A2   =  0.39554 20115 708411 E 04
A11  =  0.41577 62322 171478 E 04       A11  =  0.45189 23374 988821 E 02
A22  = -0.27795 00019 551535 E 02       A22  = -0.53746 47287 482427 E 03
A12  =  0.14515 20000 000001 E 02       A12  =  0.14515 20000 000001 E 02
A111 = -0.63026 18886 678944 E 03       A111 = -0.79277 33645 778634 E 01
A222 =  0.24985 85489 279015 E 01       A222 =  0.40484 83239 206532 E 02
A1111=  0.55895 56012 599667 E 02       A1111=  0.86885 99279 214710 E 00
ER   =  0.12505 55214 937776 E-11       ER   =  0.28421 70943 040401 E-13
```

N = 10

```
U    =  0.53846 93101 056828 E 00       U    =  0.90617 98459 386638 E 00
V    =  0.90617 98459 386638 E 00       V    =  0.53846 93101 056828 E 00
A0   =  0.31038 05821 147295 E 06       A0   = -0.59398 84324 321556 E 05
A1   = -0.64797 11580 516915 E 05       A1   = -0.11080 62836 623403 E 04
A2   =  0.59684 90650 305441 E 02       A2   =  0.10326 51700 954635 E 05
A11  =  0.11283 73668 005451 E 05       A11  =  0.12904 02815 062628 E 03
A22  = -0.65584 34234 814674 E 02       A22  = -0.12360 68789 064750 E 04
A12  =  0.29030 40000 000001 E 02       A12  =  0.29030 40000 000001 E 02
A111 = -0.14841 06017 855776 E 04       A111 = -0.19330 90700 324316 E 02
A222 =  0.49971 70978 558036 E 01       A222 =  0.80969 66578 413075 E 02
A1111=  0.11170 11202 599934 E 03       A1111=  0.17377 19855 842942 E 01
ER   =  0.96633 81206 337364 E-12       ER   =  0.56843 41886 080799 E-13
```

N = 11

```
U    =  0.53846 93101 056828 E 00       U    =  0.90617 98459 386638 E 00
V    =  0.90617 98459 386638 E 00       V    =  0.53846 93101 056828 E 00
A0   =  0.99716 36503 241316 E 06       A0   = -0.16500 02579 436901 E 06
A1   = -0.18850 68059 975626 E 06       A1   = -0.30900 39172 991291 E 04
A2   =  0.30556 29502 271693 E 03       A2   =  0.26132 14490 162475 E 05
A11  =  0.29398 22639 361206 E 05       A11  =  0.34930 59498 722416 E 03
A22  = -0.15115 73686 105254 E 03       A22  = -0.27976 16241 266023 E 04
A12  =  0.58060 80000 000001 E 02       A12  =  0.58060 80000 000001 E 02
A111 = -0.34153 76516 751526 E 04       A111 = -0.45612 69342 985808 E 02
A222 =  0.99943 41957 116056 E 01       A222 =  0.16193 93315 682615 E 03
A1111=  0.22358 22405 199868 E 03       A1111=  0.34754 39711 685883 E 01
ER   =  0.11482 37060 988322 E-10       ER   =  0.11368 68377 216160 E-12
```

N = 12

```
U    =  0.53846 93101 056828 E 00       U    =  0.90617 98459 386638 E 00
V    =  0.90617 98459 386638 E 00       V    =  0.53846 93101 056828 E 00
A0   =  0.30436 78544 330971 E 07       A0   = -0.44281 31804 725177 E 06
A1   = -0.52573 90887 519053 E 06       A1   = -0.81116 93928 297374 E 04
A2   =  0.10634 66910 553387 E 04       A2   =  0.64518 02622 085933 E 05
A11  =  0.74246 61677 839013 E 05       A11  =  0.90086 61911 574020 E 03
A22  = -0.34229 21050 495157 E 03       A22  = -0.62429 89808 805066 E 04
A12  =  0.11612 16000 000001 E 03       A12  =  0.11612 16000 000001 E 03
A111 = -0.77250 81995 582997 E 04       A111 = -0.10512 71457 064597 E 03
A222 =  0.19988 68391 423213 E 02       A222 =  0.32387 86631 365220 E 03
A1111=  0.44716 44810 399735 E 03       A1111=  0.69506 79423 371766 E 01
ER   =  0.29331 20413 217698 E-10       ER   =  0.68812 18863 800682 E-12
```

N = 13

```
U    =  0.53846 93101 056829 E 00        U    =  0.90617 98459 386638 E 00
V    =  0.90617 98459 386638 E 00        V    =  0.53846 93101 056828 E 00
A0   =  0.89167 42875 394046 E 07        A0   = -0.11553 44329 593801 E 07
A1   = -0.14178 84418 678675 E 07        A1   = -0.21275 57025 765002 E 05
A2   =  0.31915 25312 618738 E 04        A2   =  0.15613 45545 820318 E 06
A11  =  0.18297 08773 874320 E 06        A11  =  0.22938 48000 527619 E 04
A22  = -0.76453 89457 559587 E 03        A22  = -0.13781 49427 015629 E 05
A12  =  0.23224 32000 000002 E 03        A12  =  0.23224 32000 000002 E 03
A111 = -0.17238 62191 532589 E 05        A111 = -0.23805 78091 064065 E 03
A222 =  0.39977 36782 846422 E 02        A222 =  0.64775 73262 730471 E 03
A1111=  0.89432 89620 799469 E 03        A1111=  0.13901 75884 674354 E 02
ER   =  0.12050 80479 849130 E-09        ER   =  0.59117 15561 524033 E-11
```

N = 14

```
U    =  0.53846 93101 056828 E 00        U    =  0.90617 98459 386638 E 00
V    =  0.90617 98459 386638 E 00        V    =  0.53846 93101 056828 E 00
A0   =  0.25257 42396 253220 E 08        A0   = -0.29444 20211 433783 E 07
A1   = -0.37208 01158 422961 E 07        A1   = -0.54782 30593 180963 E 05
A2   =  0.88320 52550 889026 E 04        A2   =  0.37164 81720 548745 E 06
A11  =  0.44205 16741 328068 E 06        A11  =  0.56511 41308 254807 E 04
A22  = -0.16889 87362 825775 E 04        A22  = -0.30154 01784 540483 E 05
A12  =  0.46448 64000 000002 E 03        A12  =  0.46448 64000 000002 E 03
A111 = -0.38054 95967 897155 E 05        A111 = -0.53172 26535 997868 E 03
A222 =  0.79954 73565 692843 E 02        A222 =  0.12955 14652 546095 E 04
A1111=  0.17886 57924 159894 E 04        A1111=  0.27803 51789 348708 E 02
ER   =  0.19736 03502 847254 E-09        ER   =  0.13642 42052 659392 E-10
```

N = 15

```
U    =  0.53846 93101 056828 E 00        U    =  0.90617 98459 386638 E 00
V    =  0.90617 98459 386638 E 00        V    =  0.53846 93101 056828 E 00
A0   =  0.61667 00478 777681 E 08        A0   = -0.73002 25716 673776 E 07
A1   = -0.95447 25163 195488 E 07        A1   = -0.13872 59402 085325 E 06
A2   =  0.23201 74683 833634 E 05        A2   =  0.87241 85871 117266 E 06
A11  =  0.10506 32450 374780 E 07        A11  =  0.13651 60137 245666 E 05
A22  = -0.36977 93668 279264 E 04        A22  = -0.65490 09430 099350 E 05
A12  =  0.92897 28000 000003 E 03        A12  =  0.92897 28000 000003 E 03
A111 = -0.83264 55105 458269 E 05        A111 = -0.11746 59377 973522 E 04
A222 =  0.15990 94713 138570 E 03        A222 =  0.25910 29305 092178 E 04
A1111=  0.35773 15848 319789 E 04        A1111=  0.55607 03538 697414 E 02
ER   =  0.20554 58026 006816 E-09        ER   =  0.18189 89403 545857 E-11
```

16

```
U    =  0.53846 93101 056828              U    =  0.90617 98459 386638 E 00
V    =  0.90617 98459 386638              V    =  0.53846 93101 056828 E 00
A0   =  0.18703 63723 719167              A0   = -0.18067 94889 329036 E 08
A1   = -0.24019 04948 109987              A1   = -0.34606 11646 968716 E 06
A2   =  0.58758 05292 030138 E 05         A2   =  0.20238 09894 668179 E 07
A11  =  0.24629 41631 754449 E 07         A11  =  0.32446 69653 990321 E 05
A22  = -0.80352 25221 813952 E 04         A22  = -0.14134 43058 223562 E 06
A12  =  0.18579 45600 000001 E 04         A12  =  0.18579 45600 000001 E 04
A111 = -0.18083 83655 024446 E 06         A111 = -0.25717 46897 494941 E 04
A222 =  0.31981 89426 277139 E 03         A222 =  0.51820 58610 184355 E 04
A1111=  0.71546 31696 639577 E 04         A1111=  0.11121 40707 739483 E 03
ER   =  0.12259 98857 989907 E-08         ER   =  0.32741 80926 382542 E-10
```

N = 17

U	=	0.53846 93101 056828 E 00
V	=	0.90617 98459 386638 E 00
A0	=	0.49270 01337 976619 E 09
A1	=	-0.59458 47830 278329 E 08
A2	=	0.14478 37758 688787 E 06
A11	=	0.57064 73779 091790 E 07
A22	=	-0.17349 72621 413881 E 05
A12	=	0.37158 91200 000003 E 04
A111	=	-0.39029 52577 914475 E 06
A222	=	0.63963 78852 554286 E 03
A1111	=	0.14309 26339 327915 E 05
ER	=	0.12369 12794 411182 E-09

U	=	0.90617 98459 386638 E 00
V	=	0.53846 93101 056828 E 00
A0	=	-0.43726 55258 826428 E 08
A1	=	-0.85169 42982 656988 E 06
A2	=	0.46470 21699 107288 E 07
A11	=	0.76070 09323 597778 E 05
A22	=	-0.30341 68460 854512 E 06
A12	=	0.37158 91200 000003 E 04
A111	=	-0.55883 50078 085674 E 04
A222	=	0.10364 11722 036875 E 05
A1111	=	0.22242 81415 478966 E 03
ER	=	0.29831 42621 815205 E-09

N = 18

U	=	0.53846 93101 056828 E 00
V	=	0.90617 98459 386638 E 00
A0	=	0.12749 19878 732290 E 10
A1	=	-0.14510 90255 633580 E 09
A2	=	0.34921 99948 763606 E 06
A11	=	0.13088 60269 649561 E 08
A22	=	-0.37258 00396 929918 E 05
A12	=	0.74317 82400 000004 E 04
A111	=	-0.63782 75691 560111 E 06
A222	=	0.12792 75770 510854 E 04
A1111	=	0.28618 52678 655829 E 05
ER	=	0.68830 55903 017519 E-08

U	=	0.90617 98459 386638 E 00
V	=	0.53846 93101 056828 E 00
A0	=	-0.10446 30291 172365 E 09
A1	=	-0.20707 98185 164761 E 07
A2	=	0.10575 76015 551926 E 08
A11	=	0.17627 30119 160815 E 06
A22	=	-0.64829 01610 523751 E 06
A12	=	0.74317 82400 000004 E 04
A111	=	-0.12066 41272 236294 E 05
A222	=	0.20728 23444 073749 E 05
A1111	=	0.44485 62830 957933 E 03
ER	=	0.82945 91680 169106 E-09

N = 19

U	=	0.53846 93101 056828 E 00
V	=	0.90617 98459 386638 E 00
A0	=	0.32477 09211 348446 E 10
A1	=	-0.34976 27060 241309 E 09
A2	=	0.82797 90821 940021 E 06
A11	=	0.29757 46388 390772 E 08
A22	=	-0.79633 11102 064175 E 05
A12	=	0.14863 56480 000001 E 05
A111	=	-0.17901 29245 458256 E 07
A222	=	0.25585 51541 021708 E 04
A1111	=	0.57237 05357 311658 E 05
ER	=	0.11437 80536 949635 E-07

U	=	0.90617 98459 386638 E 00
V	=	0.53846 93101 056828 E 00
A0	=	-0.24672 74885 370125 E 09
A1	=	-0.49800 64549 904677 E 07
A2	=	0.23880 77970 117397 E 08
A11	=	0.40437 05249 875808 E 06
A22	=	-0.13794 93259 867702 E 07
A12	=	0.14863 56480 000001 E 05
A111	=	-0.25912 25057 710904 E 05
A222	=	0.41456 46888 147498 E 05
A1111	=	0.88971 25661 915865 E 03
ER	=	0.16589 18334 033821 E-08

N = 20

U	=	0.53846 93101 056828 E 00
V	=	0.90617 98459 386638 E 00
A0	=	0.81592 50510 501564 E 10
A1	=	-0.833d5 15486 639297 E 09
A2	=	0.19355 04761 598785 E 07
A11	=	0.67133 34117 823341 E 08
A22	=	-0.16950 04282 053707 E 06
A12	=	0.29727 12960 000001 E 05
A111	=	-0.38092 06705 208979 E 07
A222	=	0.51171 03082 043421 E 04
A1111	=	0.11447 41071 462332 E 06
ER	=	0.█████ █████ ██████ E-07

U	=	0.90617 98459 386638 E 00
V	=	0.53846 93101 056828 E 00
A0	=	-0.57684 12392 120898 E 09
A1	=	-0.11858 59886 463563 E 08
A2	=	0.53551 72993 367033 E 08
A11	=	0.91950 77528 131307 E 06
A22	=	-0.29248 12395 261299 E 07
A12	=	0.29727 12960 000001 E 05
A111	=	-0.55383 35141 898441 E 05
A222	=	0.82912 93776 █████ E 05
A1111	=	0.17794 25132 383173 E 04
ER	=	0.█████ █████ ██████ E-08

N = 1

U	.93246 95142 031520 E 00		U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00		V	.23861 91860 831970 E 00
W	.23861 91860 831970 E 00		W	.66120 93864 662650 E 00
A0	-.22204 46049 250313 E-15		A0	-.22204 46049 250313 E-15
A1	.17132 44923 791706 E 00		A1	.17132 44923 791706 E 00
A2	.36076 15730 481372 E 00		A2	.46791 39345 726924 E 00
A3	.46791 39345 726924 E 00		A3	.36076 15730 481372 E 00
A11	.00000 00000 000000 E 00		A11	.00000 00000 000000 E 00
A22	.00000 00000 000000 E 00		A22	.00000 00000 000000 E 00
A33	.00000 00000 000000 E 00		A33	.00000 00000 000000 E 00
A12	.00000 00000 000000 E 00		A12	.00000 00000 000000 E 00
A13	.00000 00000 000000 E 00		A13	.00000 00000 000000 E 00
A111	.00000 00000 000000 E 00		A111	.00000 00000 000000 E 00
A222	.00000 00000 000000 E 00		A222	.00000 00000 000000 E 00
A333	.00000 00000 000000 E 00		A333	.00000 00000 000000 E 00
A112	.00000 00000 000000 E 00		A112	.00000 00000 000000 E 00
A1111	.00000 00000 000000 E 00		A1111	.00000 00000 000000 E 00
A2222	.00000 00000 000000 E 00		A2222	.00000 00000 000000 E 00
A11111	.00000 00000 000000 E 00		A11111	.00000 00000 000000 E 00
ER	.13877 78780 781446 E-16		ER	.13877 78780 781446 E-16

N = 2

U	.93246 95142 031520 E 00		U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00		V	.23861 91860 831970 E 00
W	.23861 91860 831970 E 00		W	.66120 93864 662650 E 00
A0	.18222 99303 179801 E 01		A0	.18222 99303 179829 E 01
A1	-.64570 78710 777719 E-01		A1	-.64570 78710 777723 E-01
A2	.27441 23996 783341 E 00		A2	-.11209 91264 160473 E 01
A3	-.11209 91264 160459 E 01		A3	.27441 23996 783341 E 00
A11	.31640 06288 967707 E-01		A11	.31640 06288 967708 E-01
A22	.17147 15235 148267 E 00		A22	.90852 35933 036913 E 00
A33	.90852 35933 036842 E 00		A33	.17147 15235 148267 E 00
A12	.52083 84969 414367 E-01		A12	.11988 59733 492385 E 00
A13	.11988 59733 492385 E 00		A13	.52083 84969 414367 E-01
A111	.00000 00000 000000 E 00		A111	.00000 00000 000000 E 00
A222	.00000 00000 000000 E 00		A222	.00000 00000 000000 E 00
A333	.00000 00000 000000 E 00		A333	.00000 00000 000000 E 00
A112	.00000 00000 000000 E 00		A112	.00000 00000 000000 E 00
A1111	.00000 00000 000000 E 00		A1111	.00000 00000 000000 E 00
A2222	.00000 00000 000000 E 00		A2222	.00000 00000 000000 E 00
A11111	.00000 00000 000000 E 00		A11111	.00000 00000 000000 E 00
ER	.24980 01805 406602 E-15		ER	.24980 01805 406602 E-15

N =   3

U	.93246 95142 031520 E 00	
V	.66120 93864 662650 E 00	
W	.23861 91860 831970 E 00	
A0	-.11059 01106 690483 E 03	
A1	-.67933 53953 441070 E 00	
A2	.74273 46426 231884 E-02	
A3	.57789 26268 662192 E 02	
A11	.13385 17804 656017 E-01	
A22	.24875 89406 459794 E 00	
A33	-.30255 39455 416985 E 02	
A12	.21939 78581 923943 E-01	
A13	.23977 19466 984769 E 00	
A111	-.16166 48291 812698 E-01	
A222	.47092 05319 183696 E-01	
A333	.16036 22087 038861 E 02	
A112	.41113 95678 452396 E-01	
A1111	.00000 00000 000000 E 00	
A2222	.00000 00000 000000 E 00	
A11111	.00000 00000 000000 E 00	
ER	.61062 26635 438361 E-15	

U	.93246 95142 031520 E 00
V	.23861 91860 831970 E 00
W	.66120 93864 662650 E 00
A0	.53410 35602 346639 E 02
A1	-.17483 62290 622008 E 00
A2	-.25201 49077 250781 E 02
A3	.49344 82930 165498 E 00
A11	-.14238 22739 302298 E 00
A22	.11418 69222 012821 E 02
A33	-.76479 44621 822653 E-01
A12	.61061 90196 526553 E-01
A13	.10416 76993 882873 E 00
A111	.13476 17748 818630 E-01
A222	-.48008 22516 760433 E 01
A333	.20971 12466 239394 E 00
A112	.89355 02236 660968 E-01
A1111	.00000 00000 000000 E 00
A2222	.00000 00000 000000 E 00
A11111	.00000 00000 000000 E 00
ER	.72164 49660 063818 E-15

N =   4

U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00
W	.23861 91860 831970 E 00
A0	-.94095 54259 337896 E 03
A1	-.19956 40039 642579 E 01
A2	-.20475 40428 750644 E 01
A3	.36393 07827 662397 E 03
A11	-.40483 01342 015369 E-01
A22	.11517 73816 301178 E 01
A33	-.12465 56725 898949 E 03
A12	-.12057 62554 996170 E 00
A13	.47954 38933 969538 E 00
A111	-.48601 22881 241086 E-01
A222	-.32712 79675 046119 E 00
A333	.32072 44174 077744 E 02
A112	.82227 91356 904792 E-01
A1111	.81341 31488 078452 E-02
A2222	.21065 60369 441433 E 00
A11111	.00000 00000 000000 E 00
ER	.55511 15123 125783 E-15

U	.93246 95142 031520 E 00
V	.23861 91860 831970 E 00
W	.66120 93864 662650 E 00
A0	.66007 37910 791651 E 04
A1	.98094 42898 738996 E 00
A2	-.32504 03377 208598 E 04
A3	.25538 33546 344331 E 01
A11	-.63834 74872 398341 E 00
A22	.16002 80494 117333 E 04
A33	-.99180 38789 322061 E 00
A12	-.23529 62855 358917 E 00
A13	.20833 53987 765747 E 00
A111	-.19185 75043 584046 E-02
A222	-.78872 15548 385398 E 03
A333	.41942 24932 478788 E 00
A112	.17871 00447 332114 E 00
A1111	.14435 46500 990832 E-01
A2222	.38955 99549 025098 E 03
A11111	.00000 00000 000000 E 00
ER	.25535 12956 637860 E-14

N = 5

U	.93246 95142 031520 E 00		U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00		V	.23861 91860 831970 F 00
W	.23861 91860 831970 E 00		W	.66120 93864 662650 E 00
A0	-.48084 30858 674496 E 04		A0	.64048 48384 087943 E 05
A1	-.43360 42717 949798 E 01		A1	.73686 51927 416273 E 01
A2	-.13549 56812 329839 E 02		A2	-.25442 46958 253489 E 05
A3	.14811 45614 244700 E 04		A3	.11596 92095 929425 E 02
A11	-.21664 23021 861607 E 00		A11	-.19346 19721 382762 E 01
A22	.52973 07798 173955 E 01		A22	.94719 26846 808885 E 04
A33	-.37760 11121 429013 E 03		A33	-.36612 97730 855917 E 01
A12	-.57006 41652 754256 E 00		A12	-.11854 32750 004689 E 01
A13	.95908 77867 939076 E 00		A13	.41667 07975 531494 E 00
A111	-.96617 68946 516935 E-01		A111	-.28457 71601 487529 E-01
A222	-.14968 80082 785796 E 01		A222	-.31356 82929 287117 E 04
A333	.64144 88348 155509 E 02		A333	.83884 49864 957574 E 00
A112	.16445 58271 380958 E 00		A112	.35742 00894 664227 E 00
A1111	-.29238 40798 261593 E-03		A1111	.12310 28296 391360 E-01
A2222	.42131 20738 882864 E 00		A2222	.77911 99098 050197 E 03
A11111	.82803 23527 991528 E-02		A11111	.82803 23527 991528 E-02
ER	.11102 23024 625157 E-14		ER	.46629 36703 425657 E-14

N = 6

U	.93246 95142 031520 E 00		U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00		V	.23861 91860 831970 E 00
W	.23861 91860 831970 E 00		W	.66120 93864 662650 E 00
A0	-.19439 61428 787719 E 05		A0	.38058 18365 740458 E 06
A1	-.72336 10496 567765 E 01		A1	.31109 89607 898639 E 02
A2	-.63408 49800 558491 E 02		A2	-.12631 64274 517668 E 06
A3	.49820 18392 766264 E 04		A3	.42883 10954 376544 E 02
A11	-.83946 14041 505005 E 00		A11	-.52190 91849 308271 E 01
A22	.19952 63251 859738 E 02		A22	.37719 54468 920643 E 05
A33	-.10117 81758 212022 E 04		A33	-.10677 97540 769484 E 02
A12	-.17979 51639 103235 E 01		A12	-.38005 45857 874948 E 01
A13	.19181 75573 587815 E 01		A13	.83334 15951 062988 E 00
A111	-.12582 32543 871019 E 00		A111	-.39913 97566 147285 F-01
A222	-.46790 06461 124741 E 01		A222	-.93878 45497 794320 E 04
A333	.12828 97669 631102 E 03		A333	.16776 89972 991516 E 01
A112	.32891 16542 761917 E 00		A112	.71484 01789 328455 E 00
A1111	-.33706 06227 161843 E-01		A1111	-.85007 28184 138895 E-02
A2222	.84262 41477 765732 E 00		A2222	.15582 39819 610040 E 04
A11111	.16560 64705 598306 E-01		A11111	.16560 64705 598306 F-01
ER	.66613 38147 750939 E-14		ER	.13322 67629 550188 E-14

N =   7

U	.93246 95142 031520 E 00	U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00	V	.23861 91860 831970 E 00
W	.23861 91860 831970 E 00	W	.66120 93864 662650 E 00
A0	-.68430 88005 668150 E 05	A0	.17677 22470 183027 E 07
A1	- 62650 32979 012282 E 01	A1	.10674 90600 206512 E 03
A2	-.24771 84803 483591 E 03	A2	-.50352 47138 516109 E 06
A3	.15029 80925 379104 E 05	A3	.13856 62741 218205 E 03
A11	-.30258 95258 926032 E 01	A11	-.13470 86469 007087 E 02
A22	.65362 29206 390616 E 02	A22	.12545 63899 264704 E 06
A33	-.25367 22584 276465 E 04	A33	-.28066 71070 735575 E 02
A12	-.49115 49895 311236 E 01	A12	-.10460 45243 148128 E 02
A13	.38363 51147 175630 E 01	A13	.16666 83190 212508 E 01
A111	.15662 91676 013348 E-01	A111	.86660 13786 147370 E-01
A222	-.12723 51351 335575 E 02	A222	-.25008 65027 482879 E 05
A333	.25657 95339 262181 E 03	A333	.33553 79945 983039 E 01
A112	.65782 33085 523834 E 00	A112	.14296 80357 865691 E 01
A1111	-.13365 47127 671690 E 00	A1111	-.83244 04459 220996 E-01
A2222	.16852 48295 553145 E 01	A2222	.31164 79639 220080 E 04
A11111	.33121 29411 196611 E-01	A11111	.33121 29411 196611 E-01
ER	.48849 81308 350689 E-13	ER	.68478 55615 887966 E-12

N =   8

U	.93246 95142 031520 E 00	U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00	V	.23861 91860 831970 E 00
W	.23861 91860 831970 E 00	W	.66120 93864 662650 E 00
A0	-.21966 32669 752180 E 06	A0	.70514 77924 905359 E 07
A1	.17723 14315 699861 E 02	A1	.32851 66087 204600 E 03
A2	-.86076 94237 383731 E 03	A2	-.17587 54584 576265 E 07
A3	.42243 79971 150904 E 05	A3	.40957 56978 800832 E 03
A11	-.10344 91382 703093 E 02	A11	-.34202 98442 557950 E 02
A22	.19512 06245 456605 E 03	A22	.37587 92180 628165 E 06
A33	-.60997 63304 257823 E 04	A33	-.69554 04119 864329 E 02
A12	-.12454 39302 483200 E 02	A12	-.26639 62629 442532 E 02
A13	.76727 02294 351261 E 01	A13	.33333 66380 425195 E 01
A111	.83091 50374 846734 E 00	A111	.77126 68069 875150 E 00
A222	-.32198 02020 892412 E 02	A222	-.62483 21910 493793 E 05
A333	.51315 90678 524389 E 03	A333	.67107 59891 966063 E 01
A112	.13156 46617 104767 E 01	A112	.28593 60715 731382 E 01
A1111	-.39979 46019 822027 E 00	A1111	-.29897 32656 322844 E 00
A2222	.33704 96591 106294 E 01	A2222	.62329 59278 440164 E 04
A11111	.66242 58822 393223 E-01	A11111	.66242 58822 393223 E-01
ER	.30198 06626 980426 E-13	ER	.20943 24713 652895 E-11

N = 9

U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00
W	.23861 91860 831970 E 00
A0	-.66000 69549 766560 E 06
A1	.13216 68471 724776 E 03
A2	-.27531 90707 752308 E 04
A3	.11296 12343 736907 E 06
A11	-.33534 31249 986004 E 02
A22	.54599 73026 558667 E 03
A33	-.14252 16287 99252P E 05
A12	-.30171 37251 808307 E 02
A13	.15345 40458 870252 E 02
A111	.37909 49188 689606 E 01
A222	-.77878 02678 227334 E 02
A333	.10263 18135 704867 E 04
A112	.26312 93234 209533 E 01
A1111	-.10645 59556 860134 E 01
A2222	.67409 93182 2125A6 E 01
A11111	.13248 51764 478645 E 00
ER	.53290 70518 200751 E-13

U	.93246 95142 031520 E 00
V	.23861 91860 831970 E 00
W	.66120 93864 662650 E 00
A0	.25339 76803 400566 E 08
A1	.94589 34357 801301 E 03
A2	-.56204 89709 307433 F 07
A3	.11377 23774 168733 E 04
A11	-.86380 14647 867572 E 02
A22	.10515 54986 772906 E 07
A33	-.16595 29219 651513 E 03
A12	-.64716 69545 177616 E 02
A13	.66667 32760 850390 F 01
A111	.32683 67382 293624 E 01
A222	-.14989 82753 236365 F 06
A333	.13421 51978 393208 E 02
A112	.57187 21431 462763 E 01
A1111	-.86291 68841 602973 E 00
A2222	.12465 91855 688033 E 05
A11111	.13248 51764 478645 E 00
ER	.234A3 43741 687131 E-11

N = 10

U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00
W	.23861 91860 831970 E 00
A0	-.18867 18398 791124 E 07
A1	.55147 55798 748853 E 03
A2	-.82795 14895 355712 E 04
A3	.29108 02837 343718 E 06
A11	-.10339 38339 693637 E 03
A22	.14574 34657 898529 E 04
A33	-.32609 59830 267048 E 05
A12	-.70867 91797 30042R E 02
A13	.30690 80917 740504 E 02
A111	.12900 01801 640264 E 02
A222	-.18272 00262 933966 E 03
A333	.20526 36271 409756 E 04
A112	.52625 86468 419067 E 01
A1111	-.26590 59819 511724 E 01
A2222	.13481 98636 442514 E 02
A11111	.26497 03528 9572A9 E 00
ER	.85975 67102 697212 E-12

U	.93246 95142 031520 E 00
V	.23861 91860 831970 E 00
W	.66120 93864 662650 E 00
A0	.84359 35703 641657 E 08
A1	.26051 99985 993311 F 04
A2	-.16845 53564 865233 E 08
A3	.30199 64463 426121 E 04
A11	-.21773 17461 088337 E 03
A22	.28024 30423 295394 E 07
A33	-.38559 19230 660220 E 03
A12	-.15230 82766 294034 E 03
A13	.13333 46552 170078 E 02
A111	.11048 28371 281533 E 02
A222	-.34966 02248 747940 E 06
A333	.26843 03956 786445 E 02
A112	.11437 44286 292553 E 02
A1111	-.22557 74474 112052 E 01
A2222	.24931 83711 376063 E 05
A11111	.26497 03528 957289 F 00
ER	.21223 91151 715419 E-10

N = 11

U	.93246 95142 031520 E 00	U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00	V	.23861 91860 831970 E 00
W	.23861 91860 831970 E 00	W	.66120 93864 662650 E 00
A0	-.51875 81357 642171 E 07	A0	.26488 18871 939988 E 09
A1	.19156 60466 840383 E 04	A1	.69531 82999 240629 E 04
A2	-.23740 66805 084405 E 05	A2	-.48096 28345 065543 E 08
A3	.72889 72876 139884 E 06	A3	.77437 07073 572697 E 04
A11	-.30495 00900 804391 E 03	A11	-.54769 21199 598573 E 03
A22	.37536 05311 886046 E 04	A22	.72029 56443 000060 E 03
A33	-.73429 74169 097972 E 05	A33	-.87855 60044 035192 E 03
A12	-.16278 61818 196848 E 03	A12	-.35036 63247 105088 E 03
A13	.61381 61835 481009 E 02	A13	.26666 93104 340156 E 02
A111	.38556 03813 401806 E 02	A111	.33239 42814 524470 E 02
A222	-.41936 79980 444948 E 03	A222	-.79904 77982 046312 E 06
A333	.41052 72542 819512 E 04	A333	.53686 07913 572901 E 02
A112	.10525 17293 683813 E 02	A112	.22874 88572 585185 E 02
A1111	-.63780 01050 606368 E 01	A1111	-.55714 30359 807020 E 01
A2222	.26963 97272 885033 E 02	A2222	.49863 67422 752132 E 05
A11111	.52994 07057 914578 E 00	A11111	.52994 07057 914578 E 00
ER	.28848 03507 186007 E-11	ER	.60779 82561 691897 E-10

N = 12

U	.93246 95142 031520 E 00	U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00	V	.23861 91860 831970 E 00
W	.23861 91860 831970 E 00	W	.66120 93864 662650 E 00
A0	-.13824 39474 291148 E 08	A0	.79407 48843 409782 E 09
A1	.60525 96739 318616 E 04	A1	.18129 94663 810667 E 05
A2	-.65546 77878 647638 E 05	A2	-.13219 30093 822035 E 09
A3	.17841 10195 860952 E 07	A3	.19324 45907 367309 E 05
A11	-.86572 80841 418175 E 03	A11	-.13728 91989 575217 E 04
A22	.94003 94397 780865 E 04	A22	.18001 01347 263880 E 08
A33	-.16328 05735 532` 3 E 06	A33	-.19718 56325 349945 E 04
A12	-.36767 30553 867.22 E 03	A12	-.79223 21923 244219 E 03
A13	.12276 32367 096202 E 03	A13	.53333 86208 680312 E 02
A111	.10686 36061 167932 E 03	A111	.93004 10337 604929 E 02
A222	-.94659 18370 043907 E 03	A222	-.17975 50293 319348 E 07
A333	.82105 45085 638616 E 04	A333	.10737 21582 714554 E 03
A112	.21050 34587 367627 E 02	A112	.45749 77145 170211 E 02
A1111	-.14875 76492 437857 E 02	A1111	-.13262 62354 277987 E 02
A2222	.53927 94545 770072 E 02	A2222	.09727 34845 504269 E 05
A11111	.10598 81411 582916 E 01	A11111	.10598 81411 582916 E 01
ER	.39506 17610 826157 E-11	ER	.63977 26792 783942 E-10

N = 15

U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00
W	.23861 91860 831970 E 00
A0	-.22787 04433 217225 E 09
A1	.14188 80003 016138 E 06
A2	-.11701 62715 716759 E 07
A3	.23680 88111 852651 E 08
A11	-.16600 16533 757077 E 05
A22	.13099 37312 863365 E 06
A33	-.17003 50752 536734 E 07
A12	-.39518 01045 030238 E 04
A13	.98210 58936 769613 E 03
A111	.17724 42796 328433 E 04
A222	-.10161 27647 800476 E 05
A333	.65684 36068 511847 E 05
A112	.16840 27669 894101 E 03
A1111	-.16988 04271 510083 E 03
A2222	.43142 35636 616040 E 03
A11111	.84790 51292 663324 E 01
ER	.20122 57027 672604 E-09

U	.93246 95142 031520 E 00
V	.23861 91860 831970 E 00
W	.66120 93864 662650 E 00
A0	.17492 99582 594049 E 11
A1	.29235 32599 191418 E 06
A2	-.23305 01069 971476 E 10
A3	.26730 02052 141161 E 06
A11	-.20868 06973 196051 E 05
A22	.24943 81727 638066 E 09
A33	-.20928 71419 982996 E 05
A12	-.85338 46568 277074 E 04
A13	.42667 08966 944250 E 03
A111	.15841 35988 085742 E 04
A222	-.19167 31507 239677 E 08
A333	.85897 72661 716815 E 03
A112	.36599 81716 136169 E 03
A1111	-.15697 52960 982188 E 03
A2222	.79781 87876 403388 E 06
A11111	.84790 51292 663324 E 01
ER	.10211 35176 415555 E-08

N = 16

U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00
W	.23861 91860 831970 E 00
A0	-.56000 34699 147510 E 09
A1	.38191 88456 771646 E 06
A2	-.29353 38910 105457 E 07
A3	.54684 71170 910134 E 08
A11	-.42458 42116 630366 E 05
A22	.30608 39569 939848 E 06
A33	-.36634 38947 813597 E 07
A12	-.85772 13158 018115 E 04
A13	.19642 11787 353923 E 04
A111	.42922 39711 602211 E 04
A222	-.22048 24721 065594 E 05
A333	.13136 87213 702239 E 06
A112	.33680 55339 788202 E 03
A1111	-.37367 70594 726702 E 03
A2222	.86284 71273 232098 E 03
A11111	.16958 10258 532665 E 02
ER	.60617 82187 316567 E-09

U	.93246 95142 031520 E 00
V	.23861 91860 831970 E 00
W	.66120 93864 662650 E 00
A0	.46632 94362 970411 E 11
A1	.72191 94944 818936 E 06
A2	-.58248 21388 807938 E 10
A3	.62348 04017 701602 E 06
A11	-.50928 14329 218696 E 05
A22	.58192 81561 183226 E 09
A33	-.45293 33746 434562 E 05
A12	-.18531 68582 300062 E 05
A13	.85334 17933 888499 E 03
A111	.38640 05570 905671 E 04
A222	-.41525 90529 535490 E 08
A333	.17179 54532 343334 E 04
A112	.73199 63432 272337 E 03
A1111	-.34786 67973 670910 E 03
A2222	.15956 37575 280677 E 07
A11111	.16958 10258 532665 E 02
ER	.68735 06208 648905 E-08

N = 13

U	.93246 95142 031520 E 00	U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00	V	.23861 91860 831970 E 00
W	.23861 91860 831970 E 00	W	.66120 93864 662650 E 00
A0	-.35906 90100 420441 E 08	A0	.22926 87701 607301 E 10
A1	.18011 38791 678672 E 05	A1	.46429 20190 755618 E 05
A2	-.17549 16223 988974 E 06	A2	-.35236 25776 498551 E 09
A3	.42865 35993 673031 E 07	A3	.47181 98526 656253 E 05
A11	-.23790 76198 225861 E 04	A11	-.34238 58569 389013 E 04
A22	.23018 57990 724083 E 05	A22	.43990 04690 619519 E 08
A33	-.35940 33274 490088 E 06	A33	-.43732 01283 785471 E 04
A12	-.81954 74942 681494 E 03	A12	-.17674 63470 455652 E 04
A13	.24552 64734 192403 E 03	A13	.10666 77241 736062 E 03
A111	.28170 93232 237636 E 03	A111	.24753 77522 158812 E 03
A222	-.21088 95555 83957P E 04	A222	-.39940 00980 458857 E 07
A333	.16421 09017 127700 E 05	A333	.21474 43165 429088 E 03
A112	.42100 69174 735253 E 02	A112	.91499 54290 340422 E 02
A1111	-.33991 05549 508878 E 02	A1111	-.30764 77273 189139 E 02
A2222	.10785 58909 154011 E 03	A2222	.19945 46969 100849 E 06
A11111	.21197 62823 165831 E 01	A11111	.21197 62823 165831 E 01
ER	.12107 64821 735211 E-10	ER	.31224 0A998 024184 E-09

N = 14

U	.93246 95142 031520 E 00	U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00	V	.23861 91860 831970 E 00
W	.23861 91860 831970 E 00	W	.66120 93864 662650 E 00
A0	-.91282 61525 773140 E 08	A0	.64165 56496 463935 E 10
A1	.51374 13966 188285 E 05	A1	.11720 13845 560269 E 06
A2	-.45803 94276 170686 E 06	A2	-.91582 08960 685029 E 09
A3	.10141 07191 261821 E 08	A3	.11314 80593 039449 E 06
A11	-.63592 37105 467542 E 04	A11	-.84839 00706 280891 E 04
A22	.55335 58916 516315 E 05	A22	.10555 17713 095067 E 09
A33	-.78449 10155 830954 E 06	A33	-.96053 79833 743616 E 04
A12	-.18074 97755 525700 E 04	A12	-.39009 25112 524921 E 04
A13	.49105 29468 384807 E 03	A13	.21333 54483 472125 E 03
A111	.71634 09710 132086 E 03	A111	.63509 26979 446534 E 03
A222	-.46492 14675 340763 E 04	A222	-.87858 38748 558059 E 07
A333	.32842 18034 255283 E 05	A333	.42948 86330 858299 E 03
A112	.84201 38349 470506 E 02	A112	.18299 90858 068084 E 03
A1111	-.76461 16228 284088 E 02	A1111	-.70008 59675 644608 E 02
A2222	.21571 17818 308024 E 03	A2222	.39890 93938 201698 E 06
A11111	.42395 25646 331662 E 01	A11111	.42395 25646 331662 E 01
ER	.20577 31762 761250 E-10	ER	.72157 03590 190969 E-09

N = 17

U	.93246 95142 031520 E 00	U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00	V	.23861 91860 831970 E 00
W	.23861 91860 831970 E 00	W	.66120 93864 662650 E 00
A0	-.13576 55823 653678 E 10	A0	.12192 95020 615438 E 12
A1	.10063 71679 972966 E 07	A1	.17869 97452 350495 E 07
A2	-.72482 01901 005301 E 07	A2	-.14335 01286 294250 E 11
A3	.12506 62721 332928 E 09	A3	.14384 64422 482882 E 07
A11	-.10669 37694 320777 E 06	A11	-.12329 45582 612077 E 06
A22	.70726 36798 491758 E 06	A22	.13427 25034 020315 E 10
A33	-.78523 52781 106421 E 07	A33	-.97458 49305 806216 E 05
A12	-.18501 64045 198151 E 05	A12	-.39991 35701 892617 E 05
A13	.39284 23574 707846 E 04	A13	.17066 83586 777700 E 04
A111	.10214 85248 177771 E 05	A111	.92951 43151 982320 E 04
A222	-.47547 88293 060465 E 05	A222	-.89434 36089 183291 E 08
A333	.26273 74427 403919 E 06	A333	.34359 09064 686704 E 04
A112	.67361 10679 576405 E 03	A112	.14639 92686 454467 E 04
A1111	-.81518 65292 866472 E 03	A1111	-.76356 60050 754886 E 03
A2222	.17256 94254 646423 E 04	A2222	.31912 75150 561370 E 07
A11111	.33916 20517 065330 E 02	A11111	.33916 20517 065330 E 02
ER	.22282 62019 343674 E-09	ER	.23176 65348 527953 E-07

N = 19

U	.93246 95142 031520 E 00	U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00	V	.23861 91860 831970 E 00
W	.23861 91860 831970 E 00	W	.66120 93864 662650 E 00
A0	-.32524 68687 837182 E 10	A0	.31345 84260 661896 E 12
A1	.26044 36237 158816 E 07	A1	.42910 79234 320028 E 07
A2	-.17654 05721 057500 E 08	A2	-.34807 28947 414036 E 11
A3	.28362 81412 385018 E 09	A3	.32874 23355 369000 E 07
A11	-.26400 55445 801206 E 06	A11	-.29611 68471 994152 E 06
A22	.16185 24445 457938 E 07	A22	.30687 17712 812450 E 10
A33	-.16755 65533 317246 E 08	A33	-.20866 06223 748848 E 06
A12	-.39697 74117 573359 E 05	A12	-.85838 68478 367022 E 05
A13	.78568 47149 415691 E 04	A13	.34133 67173 595399 E 04
A111	.23961 78072 206722 E 05	A111	.21835 87996 559180 E 05
A222	-.10199 85428 797947 E 06	A222	-.19163 38223 859189 E 09
A333	.52547 48954 807242 E 06	A333	.68718 18129 373307 E 04
A112	.13472 22135 915281 E 04	A112	.29279 85372 988935 E 04
A1111	-.17660 37879 255907 E 04	A1111	-.16627 96830 833590 E 04
A2222	.34513 88509 292832 E 04	A2222	.63825 50301 122725 E 07
A11111	.67832 41034 130659 E 02	A11111	.67832 41034 130659 E 02
ER	.38216 96736 84984' E-08	ER	.11428 71042 247862 E-07

N = 19

U	.93246 95142 031520 E 00	U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00	V	.23861 91860 831970 E 00
W	.23861 91860 831970 E 00	W	.66120 93864 662650 E 00
A0	-.77101 44089 189898 E 10	A0	.79392 98060 468069 E 12
A1	.66359 35271 893568 E 07	A1	.10346 63731 999390 E 08
A2	-.42483 85402 037889 E 08	A2	-.83524 27440 481323 E 11
A3	.63845 12755 051436 E 09	A3	.74508 10276 575742 E 07
A11	-.64446 07221 916794 E 06	A11	-.70567 68489 649667 E 06
A22	.36726 54170 509419 E 07	A22	.69550 31117 577503 E 10
A33	-.35613 21020 827874 E 08	A33	-.44480 85172 672271 E 06
A12	-.84784 37089 512830 E 05	A12	-.18338 93110 589762 E 06
A13	.15713 69429 883138 E 05	A13	.68267 34347 110799 E 04
A111	.55530 37224 388856 E 05	A111	.50865 60653 724845 E 05
A222	-.21780 26397 967616 E 06	A222	-.40879 72459 763117 E 09
A333	.10509 49770 961761 E 07	A333	.13743 63625 874717 E 05
A112	.26944 44271 830562 E 04	A112	.58559 70745 817869 E 04
A1111	-.38034 05399 877041 E 04	A1111	-.35969 23303 032407 E 04
A2222	.69027 77018 585678 E 04	A2222	.12765 10060 224542 E 08
A11111	.13566 48206 826132 E 03	A11111	.13566 48206 826132 E 03
ER	.41509 33818 891644 E-08	ER	.69449 01542 738880 E-08

N = 20

U	.93246 95142 031520 E 00	U	.93246 95142 031520 E 00
V	.66120 93864 662650 E 00	V	.23861 91860 831970 E 00
W	.23861 91860 831970 E 00	W	.66120 93864 662650 E 00
A0	-.18106 74454 633969 E 11	A0	.19844 61550 115269 E 13
A1	.16678 54598 589920 E 08	A1	.24784 74477 403672 E 08
A2	-.10115 04972 357097 E 09	A2	-.19834 25172 523738 E 12
A3	.14277 00135 233296 E 10	A3	.16763 49677 490224 E 08
A11	-.15544 18590 776167 E 07	A11	-.16691 86030 617375 E 07
A22	.82717 41116 354479 E 07	A22	.15647 37442 387832 E 11
A33	-.75430 21950 037360 E 08	A33	-.94459 15795 694664 E 06
A12	-.18034 65188 775789 E 06	A12	-.39020 25051 012238 E 06
A13	.31427 38859 766276 E 05	A13	.13653 46869 422160 E 05
A111	.12735 96846 527460 E 06	A111	.11720 42248 520873 E 06
A222	-.46321 63876 678640 E 06	A222	-.86865 60943 616112 E 09
A333	.21018 99541 922688 E 07	A333	.27487 27251 749451 E 05
A112	.53888 88543 661123 E 04	A112	.11711 94149 163574 E 05
A1111	-.81494 70082 484537 E 04	A1111	-.77365 05888 795263 E 04
A2222	.13895 55403 717139 E 05	A2222	.25530 20120 449182 E 08
A11111	.27132 96413 652264 E 03	A11111	.27132 96413 652264 E 03
ER	.75306 16130 679846 E-08	ER	.26162 16079 331934 E-06

		Left		Right	
U	=	.33998 10435 848561 E 00	U	=	.86113 63115 940528 E 00
V	=	.86113 63115 940528 E 00	V	=	.33998 10435 848561 E 00
A0	=	-.15543 12234 475219 E-14	A0	=	-.15543 12234 475219 E-14
A1	=	.65214 51548 625472 E 00	A1	=	.34785 48451 374536 E 00
A2	=	.34785 48451 374536 E 00	A2	=	.65214 51548 625472 E 00
A11	=	.00000 00000 000000 E 00	A11	=	.00000 00000 000000 E 00
A22	=	.00000 00000 000000 E 00	A22	=	.00000 00000 000000 E 00
A111	=	.00000 00000 000000 E 00	A111	=	.00000 00000 000000 E 00
ER	=	.11102 23024 625157 E-15	ER	=	.11102 23024 625157 E-15

		Left		Right	
U	=	.30901 69943 749475 E 00	U	=	.80901 69943 749475 E 00
V	=	.80901 69943 749475 E 00	V	=	.30901 69943 749475 E 00
A0	=	.41887 90204 786386 E 01	A0	=	.41887 90204 786386 E 01
A1	=	-.24521 60497 404741 E 01	A1	=	.35776 53950 115478 E 00
A2	=	.35776 53950 115478 E 00	A2	=	-.24521 60497 404741 E 01
A11	=	.17943 99698 677112 E 01	A11	=	.38196 01591 693225 E-01
A22	=	.38196 01591 693225 E-01	A22	=	.17943 99698 677112 E 01
A111	=	.00000 00000 000000 E 00	A111	=	.00000 00000 000000 E 00
ER	=	.11102 23024 625157 E-15	ER	=	.11102 23024 625157 E-15

		Left		Right	
U	=	.28523 15164 806454 E 00	U	=	.76505 53239 294646 E 00
V	=	.76505 53239 294646 E 00	V	=	.28523 15164 806454 E 00
A0	=	-.54256 52970 004664 E 01	A0	=	.19202 11853 241321 E 02
A1	=	.49076 98270 311748 E 01	A1	=	.35156 05423 644567 E 00
A2	=	.31840 23375 624060 E 00	A2	=	-.74393 45685 699238 E 01
A11	=	-.39133 54954 080435 E 01	A11	=	.27088 48630 642133 E-01
A22	=	.43667 58870 744668 E-01	A22	=	.22601 67023 925059 E 01
A111	=	.30867 60989 002748 E 01	A111	=	.82895 51200 512676 E-02
ER	=	.18041 12415 015879 E-15	ER	=	.18041 12415 015879 E-15

		Left		Right	
U	=	.26621 64819 319197 E 00	U	=	.72741 23897 403674 E 00
V	=	.72741 23897 403674 E 00	V	=	.26621 64819 319197 E 00
A0	=	-.67822 60003 319145 E 02	A0	=	.47708 49700 437272 E 02
A1	=	.29922 29993 077465 E 02	A1	=	.34448 68992 325329 E 00
A2	=	.24039 05230 607801 E 00	A2	=	-.13399 08306 804655 E 02
A11	=	-.11682 14238 112831 E 02	A11	=	.11201 53204 033704 E-01
A22	=	.45900 32383 092134 E-01	A22	=	.25585 78615 345429 E 01
A111	=	.36101 80249 119436 E 01	A111	=	.86746 97947 646082 E-02
ER	=	.20816 68171 172169 E-16	ER	=	.34694 46951 953614 E-16

		Left		Right	
U	=	.25056 28070 857318 E 00	U	=	.69474 65906 068657 E 00
V	=	.69474 65906 068657 E 00	V	=	.25056 28070 857318 E 00
A0	=	-.22022 13718 838217 E 03	A0	=	.86051 71944 257756 E 02
A1	=	.73016 71253 391755 E 02	A1	=	.34592 26621 737187 E 00
A2	=	.14328 13690 277056 E 00	A2	=	-.19067 35615 714819 E 02
A11	=	-.20371 41284 004945 E 02	A11	=	-.58309 94118 787509 E-02
A22	=	.44829 32916 771550 E-01	A22	=	.26497 29332 716990 E 01
A111	=	.38368 57028 794408 E 01	A111	=	.84433 87214 417173 E-02
ER	=	.31225 02256 758253 E-15	ER	=	.11102 23024 625157 E-15

N = 6

```
U    =  .23738 33033 084449 E 00        U    =  .66606 99417 556468 E 00
V    =  .66606 99417 556468 E 00        V    =  .23738 33033 084449 E 00
A0   = -.47247 40756 950835 E 03        A0   =  .12795 98903 584191 E C3
A1   =  .12711 32651 484860 E 03        A1   =  .35509 34260 798716 E 00
A2   =  .47751 14037 234734 E-01        A2   = -.23302 45865 859721 E 02
A11  = -.27540 51246 885936 E 02        A11  = -.20622 35807 381020 E-01
A22  =  .41024 09906 769462 E-01        A22  =  .25428 32290 957290 E 01
A111 =  .37604 18094 977093 E 01        A111 =  .77059 07142 688108 E-02
ER   =  .52041 70427 930421 E-16        ER   =  .34694 46951 953614 E-17
```

N = 7

```
U    =  .22609 76561 655188 E 00        U    =  .64064 25159 697440 E 00
V    =  .64064 25159 697440 E 00        V    =  .22608 76561 655188 E 00
A0   = -.79565 77119 112411 E 03        A0   =  .16455 82026 433886 E 03
A1   =  .18072 81006 928089 E 03        A1   =  .36773 68623 284692 E 00
A2   = -.30524 77587 511426 E-01        A2   = -.25430 71406 424401 E 02
A11  = -.32076 58270 255400 E 02        A11  = -.30961 54454 834155 E-01
A22  =  .35415 39515 225547 E-01        A22  =  .22832 19756 954813 E 01
A111 =  .34359 80245 950884 E 01        A111 =  .66376 93970 059704 E-02
ER   =  .26367 79683 484747 E-15        ER   =  .45102 81037 539698 E-16
```

N = 8

```
U    =  .21626 57294 177509 E 00        U    =  .61790 01236 857269 E 00
V    =  .61790 01236 857269 E 00        V    =  .21626 57294 177509 E 00
A0   = -.11310 32161 313599 E 04        A0   =  .18886 97863 680577 E 03
A1   =  .22258 64238 080364 E 03        A1   =  .37216 23364 569216 E 00
A2   = -.83621 13674 030897 E-01        A2   = -.25350 97485 547134 E 02
A11  = -.33486 92058 383382 E 02        A11  = -.36108 86030 832619 E-01
A22  =  .29003 06443 413533 E-01        A22  =  .19327 07796 667296 E 01
A111 =  .29513 35698 375005 E 01        A111 =  .54259 03728 538464 E-02
ER   =  .34694 46951 953614 E-16        ER   =  .27755 57561 562891 E-16
```

N = 9

```
U    =  .20762 24744 324487 E 00        U    =  .59740 51457 014303 E 00
V    =  .59740 51457 014303 E 00        V    =  .20762 24744 324487 E 00
A0   = -.14122 78738 280486 E 04        A0   =  .19746 78958 463933 E 03
A1   =  .24533 62817 248048 E 03        A1   =  .38264 46031 583554 E 00
A2   = -.11094 27107 917994 E 00        A2   = -.23428 31627 693440 E 02
A11  = -.32043 93575 020820 E 02        A11  = -.36562 19930 649615 E-01
A22  =  .22636 33993 427366 E-01        A22  =  .15516 51500 009198 E 01
A111 =  .23996 84803 586958 E 01        A111 =  .42285 02802 912130 E-02
ER   =  .27755 57561 562891 E-16        ER   =  .17347 23475 976807 E-16
```

N = 10

```
U    =  .19993 94631 181634 E 00        U    =  .57881 27599 561194 E 00
V    =  .57881 27599 561194 E 00        V    =  .19993 94631 181634 E 00
A0   = -.15882 74809 522240 E 04        A0   =  .19078 49156 694583 E 03
A1   =  .24702 36959 903576 E 03        A1   =  .33721 58777 438606 E 00
A2   = -.11691 68264 389951 E 00        A2   = -.20284 39549 257968 E 02
A11  = -.28510 11552 937856 E 02        A11  = -.33556 13924 330290 E-01
A22  =  .16905 05010 534791 E-01        A22  =  .11873 39079 836727 E 01
A111 =  .18563 40913 075957 E 01        A111 =  .31536 99334 603177 E-02
ER   =  .10408 34085 586084 E-15        ER   =  .00000 00000 000000 E 00
```

N = 11

U	=	.19305 10570 766176 E 00
V	=	.56184 73684 949468 E 00
A0	=	-.16365 15952 712617 E 04
A1	=	.23045 89470 387647 E 03
A2	=	-.10822 14344 538498 E 00
A11	=	-.23834 65147 910572 E 02
A22	=	.12120 11780 142623 E-01
A111	=	.13724 55297 563723 E 01
ER	=	.31225 02256 758253 E-16

U	=	.56184 73684 949468 E 00
V	=	.19305 10579 766176 E 00
A0	=	.17214 38123 662850 E 03
A1	=	.29830 96162 568295 E 00
A2	=	-.16583 00652 270536 E 02
A11	=	-.28532 98726 964174 E-01
A22	=	.86954 38770 412822 E 00
A111	=	.22585 05837 281555 E-02
ER	=	.00000 00000 000000 E 00

N = 12

U	=	.18682 90595 517309 E 00
V	=	.54628 58554 276772 E 00
A0	=	-.15642 00203 307027 E 04
A1	=	.20126 75817 633349 E 03
A2	=	-.91533 56033 993541 E-01
A11	=	-.18856 34791 916339 E 02
A22	=	.83605 98169 569507 E-02
A111	=	.97339 62374 695300 E 00
ER	=	.19081 95823 574488 E-16

U	=	.54628 58554 276772 E 00
V	=	.18682 90595 517309 E 00
A0	=	.14623 59213 719527 E 03
A1	=	.25112 30980 843753 E 00
A2	=	-.12879 59047 996175 E 02
A11	=	-.22784 00714 173149 E-01
A22	=	.61157 68302 272024 E 00
A111	=	.15575 30265 565050 E-02
ER	=	.43368 08689 942018 E-17

N = 13

U	=	.18117 24820 594397 E 00
V	=	.53194 54910 313955 E 00
A0	=	-.13999 76586 113466 E 04
A1	=	.16584 12134 361888 E 03
A2	=	-.72497 26303 999768 E-01
A11	=	-.14201 61782 490602 E 02
A22	=	.55749 71665 073001 E-02
A111	=	.66436 10859 167639 E 00
ER	=	.96736 17379 884035 E-17

U	=	.53194 54910 313955 E 00
V	=	.18117 24820 594397 E 00
A0	=	.11770 90533 429798 E 03
A1	=	.20155 56355 495110 E 00
A2	=	-.95501 13245 836694 E 01
A11	=	-.17237 76988 405271 E-01
A22	=	.41432 60652 627743 E 00
A111	=	.10369 42797 687533 E-02
ER	=	.52041 70427 930421 E-17

N = 14

U	=	.17600 05478 901109 E 00
V	=	.51867 50496 624844 E 00
A0	=	-.11819 42003 007576 E 04
A1	=	.12972 59631 034530 E 03
A2	=	-.53759 71899 848621 E-01
A11	=	-.10229 99295 558256 E 02
A22	=	.35938 06326 363141 E-02
A111	=	.43754 42524 386762 E 00
ER	=	.00000 00000 000000 E 00

U	=	.51867 50496 624844 E 00
V	=	.17600 05478 901109 E 00
A0	=	.99201 83045 900070 E 02
A1	=	.15463 58846 723572 E 00
A2	=	-.67878 43657 413853 E 01
A11	=	-.12436 62472 524020 E-01
A22	=	.27106 91029 456651 E 00
A111	=	.66793 46271 501393 E-03
ER	=	.00000 00000 000000 E 00

N = 15

U	=	.17124 77677 689651 E 00
V	=	.50634 81882 543200 E 00
A0	=	-.94684 70442 481023 E 03
A1	=	.96814 01241 533357 E 02
A2	=	-.38101 29890 969160 E-01
A11	=	-.70750 81007 331360 E 01
A22	=	.22456 41462 299260 E-02
A111	=	.27872 03317 786305 E 00
ER	=	.10408 34085 586084 E-16

U	=	.50634 81882 543200 E 00
V	=	.17124 77677 689651 E 00
A0	=	.66176 78090 727060 E 02
A1	=	.11371 69538 744564 E 00
A2	=	-.46401 88352 087887 E 01
A11	=	-.85985 19386 568418 E-02
A22	=	.17164 76189 130304 E 00
A111	=	.41708 31095 718340 E-03
ER	=	.69388 93903 907228 E-17

N = 16

U =	.16686 04101 878596 E 00	
V =	.49485 84406 062120 E 00	
A0 =	-.72322 17449 484346 E 03	
A1 =	.69216 17414 234590 E 02	
A2 =	-.25853 25836 162827 E-01	
A11 =	-.47129 76996 607209 E 01	
A22 =	.13625 80098 132880 E-02	
A111 =	.17208 51712 534941 E 00	
ER =	.99746 59986 866641 E-17	

U =	.49485 84406 062120 E 00	
V =	.16686 04101 878596 E 00	
A0 =	.46586 75573 976291 E 02	
A1 =	.80371 72658 744958 E-01	
A2 =	-.30595 92784 121622 E 01	
A11 =	-.57190 85698 472286 E-02	
A22 =	.10540 77984 906236 E 00	
A111 =	.25291 66355 930417 E-03	
ER =	.43368 08689 942018 E-18	

N = 17

U =	.16279 39189 831084 E 00	
V =	.48411 53841 384431 E 00	
A0 =	-.52883 78742 268214 E 03	
A1 =	.47569 51486 590184 E 02	
A2 =	-.16869 75622 219786 E-01	
A11 =	-.30321 27579 147379 E 01	
A22 =	.80408 59955 563495 E-03	
A111 =	.10316 70775 513277 E 00	
ER =	.28189 25648 462312 E-17	

U =	.48411 53841 384431 E 00	
V =	.16279 39189 831084 E 00	
A0 =	.31570 55143 834659 E 02	
A1 =	.54731 08619 435014 E-01	
A2 =	-.19506 92358 735411 E 01	
A11 =	-.36709 66655 477907 E-02	
A22 =	.62884 74730 244920 E-01	
A111 =	.14916 84217 011420 E-03	
ER =	.32526 06517 456513 E-18	

N = 18

U =	.15901 09920 660104 E 00	
V =	.47404 16694 79731t E 00	
A0 =	-.37146 29035 387638 E 03	
A1 =	.31518 98031 163193 E 02	
A2 =	-.10622 71355 324485 E-01	
A11 =	-.18884 44537 121340 E 01	
A22 =	.46214 37479 188134 E-03	
A111 =	.60154 62632 339842 E-01	
ER =	.17347 23475 976807 E-17	

U =	.47404 16694 787316 E 00	
V =	.15901 09920 660104 E 00	
A0 =	.20667 10935 460413 E 02	
A1 =	.35992 93192 269772 E-01	
A2 =	-.12051 36408 291448 E 01	
A11 =	-.22790 53044 783687 E-02	
A22 =	.36503 50522 708876 E-01	
A111 =	.85690 52477 195316 E-04	
ER =	.10842 02172 485504 E-18	

N = 19

U =	.15548 01301 113334 E 00	
V =	.46457 06933 724542 E 00	
A0 =	-.25137 41099 415232 E 03	
A1 =	.20185 15973 277985 E 02	
A2 =	-.64732 39429 408587 E-02	
A11 =	-.11409 07834 873717 E 01	
A22 =	.25902 56828 607540 E-03	
A111 =	.34163 36844 450233 E-01	
ER =	.16805 13367 352532 E-17	

U =	.46457 06933 724542 E 00	
V =	.15548 01301 113334 E 00	
A0 =	.13088 17657 610533 E 02	
A1 =	.22906 63142 477918 E-01	
A2 =	-.72282 17552 555453 E 00	
A11 =	-.13731 92142 37'896 E-02	
A22 =	.20646 69223 9. 141 E-01	
A111 =	.48006 40662 4. 774 E-04	
ER =	.10842 02172 4f 504 E-18	

N = 20

U =	.15217 45251 023969 E 00	
V =	.45564 47571 069930 E 00	
A0 =	-.16430 02633 842989 E 03	
A1 =	.12521 03793 535224 E 02	
A2 =	-.38264 86003 427707 E-02	
A11 =	-.06982 96957 673287 E 00	
A22 =	.14174 45191 196401 E-03	
A111 =	.18922 85693 534817 E-01	
ER =	.37947 07663 647866 E-18	

U =	.45564 47571 069930 E 00	
V =	.15217 45251 023969 E 00	
A0 =	.80367 08689 337253 E 01	
A1 =	.14134 75225 199922 E-01	
A2 =	-.42159 62084 258928 E 00	
A11 =	-.80358 38101 133546 E-03	
A22 =	.11393 15390 520477 E-01	
A111 =	.26259 12025 647210 E-04	
ER =	.14863 68288 758857 E-18	

N = 1

	Left	Right
U =	.53846 93101 056826 E 00	.90617 98459 386643 E 00
V =	.90617 98459 386643 E 00	.53846 93101 056828 E 00
A0 =	.56888 88888 888886 E 00	.56889 88888 888886 F 00
A1 =	.47862 86704 993670 E 00	.23692 68850 561888 E 00
A2 =	.23692 68850 561886 E 00	.47862 86704 993670 E 00
A11 =	.08000 00000 000000 E 00	.00000 00000 000000 E 00
A22 =	.00000 00000 000000 E 00	.00000 00000 000000 E 00
A12 =	.00000 00000 000000 E 00	.00000 00000 000000 E 00
A111 =	.00000 00000 000000 E 00	.00000 00000 000000 E 00
A222 =	.00000 00008 000000 E 00	.00000 00000 000000 E 00
A1111=	.00000 00000 000.00 E 00	.00000 00000 000000 E 00
ER =	.11102 23024 625157 E-15	.11102 23024 625157 E-15

N = 2

	Left	Right
U =	.49999 99999 999994 E 00	.86602 54037 844375 E 00
V =	.86602 54037 844375 E 00	.49999 99999 999994 E 00
A0 =	.30252 37370 123548 E 00	.30252 37370 123555 F 00
A1 =	.20943 95102 393173 E 00	.16289 73968 528050 E 00
A2 =	.16289 73968 528050 E 00	.20943 95102 393171 E 00
A11 =	.23561 94490 192336 E 00	-.29088 82086 657206 E-02
A22 =	-.29088 82086 657211 E-02	.23561 94490 192337 E 00
A12 =	.52359 87755 983047 E-01	.52359 87755 983046 E-01
A111 =	.00000 00000 000000 E 00	.00000 00000 000000 E 00
A222 =	.00000 00000 000000 E 00	.00000 00000 000000 E 00
A1111=	.00000 00000 000000 E 00	.00000 00000 000000 E 00
ER =	.61062 26635 438361 E-15	.62450 04513 516506 E-15

N = 3

	Left	Right
U =	.46884 87934 707141 E 00	.83022 38962 785660 E 00
V =	.83022 38962 785660 E 00	.46884 87934 707141 E 00
A0 =	-.28723 13283 283412 E-01	-.28723 13283 283390 E-01
A1 =	.19963 02680 524696 E 00	.63665 11624 839519 E-01
A2 =	.63665 11624 839513 E-01	.19963 02680 524695 E 00
A11 =	.21486 04700 624865 E-01	-.32348 89685 396883 E-02
A22 =	-.32348 89685 396887 E-02	.21486 04700 624870 E-01
A12 =	.54304 67301 205273 E-01	.54304 67301 205272 E-01
A111 =	.13885 48067 891144 E 00	.57206 71702 043204 E-03
A222 =	.57206 71702 043204 E-03	.13885 48067 891144 E 00
A1111=	.00000 00000 000000 E 00	.00000 00000 000000 E 00
ER =	.50306 98080 332741 E-15	.48919 20202 254596 E-15

N = 4

	Left	Right
U =	.44293 04581 360565 E 00	.79821 42209 887744 E 00
V =	.79821 42209 887744 E 00	.44293 04581 360565 E 00
A0 =	-.71326 49310 692132 E 00	-.12863 79197 930569 E 01
A1 =	.39966 19780 959333 E 00	-.42582 66934 596638 E-01
A2 =	-.39983 33836 345080 E-01	.68881 84425 091356 E 00
A11 =	-.11424 51621 206677 E 00	-.25006 72811 872688 E-02
A22 =	-.38003 38303 130391 E-02	-.25982 33943 272685 E 00
A12 =	.52872 88072 012158 E-01	.52872 88072 012161 E-01
A111 =	.77128 63456 007986 E-01	-.43504 16405 419100 E-04
A222 =	.60632 85815 746637 E-03	.14941 77506 633802 E 00
A1111=	.36144 55805 165026 E-01	.32491 63728 144278 F-03
ER =	.00736 17370 000033 E-16	.70060 00001 000000 E-16

N = 5

```
U    =   .42091 48050 238108 E 00        U    =   .76945 53243 317874 E 00
V    =   .76945 53243 317874 E 00        V    =   .42091 48050 238108 E 00
A0   =  -.14860 73728 589994 E 01        A0   =  -.44273 91217 854520 E 01
A1   =   .51733 75020 000603 E 00        A1   =  -.13820 38904 246059 E 00
A2   =  -.12869 38008 199580 E 00        A2   =   .17033 74387 310518 E 01
A11  =  -.97292 10465 436963 E-01        A11  =  -.78012 45378 812374 E-03
A22  =  -.43464 08139 624128 E-02        A22  =  -.54205 60116 457912 E 00
A12  =   .48538 61000 429927 E-01        A12  =   .48538 61000 429930 E-01
A111 =   .41881 16993 262617 E-03        A111 =  -.59773 87893 702325 E-03
A222 =   .59102 24112 107334 E-03        A222 =   .14867 34473 631334 E 00
A1111=   .37063 65891 595181 E-01        A1111=   .29719 03001 452416 E-03
ER   =   .52041 70427 930421 E-16        ER   =   .52041 70427 930421 E-16
```

N = 6

```
U    =   .40190 50360 892102 E 00        U    =   .74347 70045 212191 E 00
V    =   .74347 70045 212191 E 00        V    =   .40190 50360 892102 E 00
A0   =  -.14152 28888 271406 E 01        A0   =  -.98257 76816 142069 E 01
A1   =   .22528 39284 342734 E 00        A1   =  -.21051 00352 769818 E 00
A2   =  -.18992 56009 369165 E 00        A2   =   .30493 93339 231228 E 01
A11  =   .76754 28597 808603 E-01        A11  =   .14996 50405 526392 E-02
A22  =  -.46783 79896 493191 E-02        A22  =  -.77047 85371 110008 E 00
A12  =   .42202 98770 374144 E-01        A12  =   .42202 98770 374144 E-01
A111 =  -.73678 51061 775539 E-01        A111 =  -.10072 43132 014016 E-02
A222 =   .53726 44434 908795 E-03        A222 =   .13812 96951 545163 E 00
A1111=   .35301 36762 871195 E-01        A1111=   .25741 79292 508161 E-03
ER   =   .62450 04513 516506 E-16        ER   =   .48572 25732 735060 E-16
```

N = 7

```
U    =   .38527 03828 805474 E 00        U    =   .71988 42953 848500 E 00
V    =   .71988 42953 848500 E 00        V    =   .38527 03828 805474 E 00
A0   =   .59188 75761 308406 E 00        A0   =  -.16935 64592 946938 E 02
A1   =  -.63078 54820 953636 E 00        A1   =  -.25363 76013 147196 E 00
A2   =  -.21970 56448 533757 E 00        A2   =   .44110 13190 251756 E 01
A11  =   .35203 72529 484931 E 00        A11  =   .37809 10913 337259 E-02
A22  =  -.47020 78201 998668 E-02        A22  =  -.90841 24151 382864 E 00
A12  =   .34898 83955 358454 E-01        A12  =   .34898 83955 358454 E-01
A111 =  -.13133 72705 776065 E 00        A111 =  -.12368 30479 173989 E-02
A222 =   .45976 73438 931964 E-03        A222 =   .12075 26630 397493 E 00
A11118   .31511 24170 216698 E-01        A11118   .21287 47278 422022 E-03
ER   =   .65919 49208 711867 E-16        ER   =   .10408 34085 586084 E-15
```

N = 8

```
U    =   .37055 19908 775504 E 00        U    =   .69834 89257 217226 E 00
V    =   .69834 89257 217226 E 00        V    =   .37055 19908 775504 E 00
A0   =   .50822 00277 750434 E 01        A0   =  -.24465 67405 245068 E 02
A1   =  -.19510 91917 153019 E 01        A1   =  -.26800 47623 355943 E 00
A2   =  -.22129 39652 629722 E 00        A2   =   .54825 87462 469887 E 01
A11  =   .64572 83164 774995 E 00        A11  =   .55879 31849 462169 E-02
A22  =  -.44215 24666 099750 E-02        A22  =  -.94720 29791 559806 E 00
A12  =   .27550 04594 901073 E-01        A12  =   .27550 04594 901073 E-01
A111 =  -.16554 61604 662551 E 00        A111 =  -.12953 02211 839885 E-02
A222 =   .37294 05407 537674 E-03        A222 =   .99942 38880 599150 E-01
A1111=   .26548 85492 722467 E-01        A1111=   .16682 42752 593652 E-03
ER   =   .00000 00000 000000 E 00        ER   =   .20816 68171 172169 E-16
```

N = 9

U	=	.35740 67443 365933 E 00
V	=	.67859 83445 458467 E 00
A0	=	.11657 53554 089135 E 02
A1	=	-.34445 12368 448375 E 01
A2	=	-.20224 03105 054326 E 00
A11	=	.88316 38421 942614 E 00
A22	=	-.39091 62787 552036 E-02
A12	=	.20831 92904 046090 E-01
A111	=	-.17608 63071 518133 E 00
A222	=	.28827 23066 600499 E-03
A1111	=	.21233 39858 667657 E-01
ER	=	.13877 78780 781446 E-16

U	=	.67859 83445 458467 E 00
V	=	.35740 67443 365933 E 00
A0	=	-.30895 53584 864143 E 02
A1	=	-.25856 47796 625851 E 00
A2	=	.60680 50198 382733 E 01
A11	=	.66516 75179 414023 E-02
A22	=	-.90044 16390 865705 E 00
A12	=	.20831 92904 046090 E-01
A111	=	-.12204 18831 477958 E-02
A222	=	.78714 47588 830549 E-01
A1111	=	.12572 42615 115007 F-03
ER	=	.24286 12866 367530 E-16

N = 10

U	=	.34557 21051 348650 E 00
V	=	.66040 55388 230878 E 00
A0	=	.19095 02194 182536 E 02
A1	=	-.47676 00988 260716 E 01
A2	=	-.17131 67086 219399 E 00
A11	=	.10197 77173 902550 E 01
A22	=	-.32670 57333 971106 E-02
A12	=	.15132 84155 531619 E-01
A111	=	-.16751 36264 868042 E 00
A222	=	.21324 84524 658374 E-03
A1111	=	.16197 08779 952736 E-01
ER	=	.20816 68171 172169 E-16

U	=	.66040 55388 230878 E 00
V	=	.34557 21051 348650 E 00
A0	=	-.35021 27861 822361 E 02
A1	=	-.23249 95978 945074 E 00
A2	=	.61165 42013 021666 E 01
A11	=	.69300 90878 123490 E-02
A22	=	-.79429 66596 445144 E 00
A12	=	.15132 84155 531619 E-01
A111	=	-.10613 95074 045987 E-02
A222	=	.59245 60270 657878 E-01
A1111	=	.91045 96617 941615 E-04
ER	=	.17347 23475 976807 E-16

N = 11

U	=	.33484 32299 388890 E 00
V	=	.64358 04540 519989 E 00
A0	=	.25845 86287 090268 E 02
A1	=	-.56549 12757 780909 E 01
A2	=	-.13626 61958 714314 E 00
A11	=	.10459 22290 908699 E 01
A22	=	-.25939 25960 098010 E-02
A12	=	.10588 59478 737710 E-01
A111	=	-.14652 56512 816470 E 00
A222	=	.15150 44868 300438 E-03
A1111	=	.11830 83907 781128 E-01
ER	=	.26020 86213 965211 E-17

U	=	.64358 04540 519989 E 00
V	=	.33484 32299 388890 E 00
A0	=	-.36285 57068 416070 E 02
A1	=	-.19724 74278 314590 E 00
A2	=	.57026 92756 917924 E 01
A11	=	.65532 58833 906143 E-02
A22	=	-.65771 85362 961259 E 00
A12	=	.10588 59478 737710 E-01
A111	=	-.86484 98094 618174 E-03
A222	=	.42767 77378 330982 E-01
A1111	=	.63522 11662 502885 E-04
FR	=	.26020 85213 965211 E-17

N = 12

U	=	.32505 75836 718682 E 00
V	=	.62796 30301 995542 E 00
A0	=	.30600 98550 402421 E 02
A1	=	-.59878 20218 669744 E 01
A2	=	-.10266 39330 014408 E 00
A11	=	.97901 78099 072839 E 00
A22	=	-.19651 60571 976980 E-02
A12	=	.71531 93404 578161 E-02
A111	=	-.11974 54093 070213 E 00
A222	=	.10368 45994 509817 E-03
A1111	=	.83025 94290 369223 E-02
ER	=	.39031 27880 947816 E-17

U	=	.62796 30301 995542 E 00
V	=	.32505 75836 718682 E 00
A0	=	-.34816 60090 712229 E 02
A1	=	-.15915 73136 643976 E 00
A2	=	.49716 04244 617625 E 01
A11	=	.57384 82122 971678 E-02
A22	=	-.51544 91623 591749 E 00
A12	=	.71531 93404 578159 E-02
A111	=	-.66667 96700 438851 E-03
A222	=	.29701 28791 962458 E-01
A1111	=	.42708 01497 193708 E-04
ER	=	.13010 43866 982406 E-17

N = 13

U	=	.31608 43015 610407 E 00		U	=	.61341 76313 875764 E 00
V	=	.61341 76313 875764 E 00		V	=	.31608 43015 610407 E 00
A0	=	.32662 45121 969326 E 02		A0	=	-.31244 33817 444935 E 02
A1	=	-.57942 00742 491713 E 01		A1	=	-.122A3 71413 067629 E 00
A2	=	-.73727 02854 849830 E-01		A2	=	.40867 23123 211574 E 01
A11	=	.85044 31730 754500 E 00		A11	=	.47127 07291 375341 E-02
A22	=	-.14260 56803 407700 E-02		A22	=	-.38467 23101 370611 E 00
A12	=	.46753 42117 848769 E-02		A12	=	.46753 42117 848769 E-02
A111	=	-.92386 03637 594964 E-01		A111	=	-.48954 15239 916204 E-03
A222	=	.68527 93917 047422 E-04		A222	=	.19897 18937 067866 E-01
A1111	=	.56141 61287 331418 E-02		A1111	=	.27903 47315 810476 E-04
ER	=	.95409 79117 872439 E-17		FR	=	.4336A 08689 942018 E-1A

N = 14

U	=	.30781 66553 306861 E 00		U	=	.59982 86098 932625 E 00
V	=	.59982 86098 932625 E 00		V	=	.30781 66553 306861 E 00
A0	=	.32023 58974 167001 E 02		A0	=	-.26425 35750 904939 E 02
A1	=	-.52022 32551 074343 E 01		A1	=	-.91065 28216 147211 E-01
A2	=	-.50710 77621 280004 E-01		A2	=	.31879 71562 119979 E 01
A11	=	.69340 93634 884846 E 00		A11	=	.36617 81005 706235 E-02
A22	=	-.99450 81422 174564 E-03		A22	=	-.27469 11111 108605 E 00
A12	=	.29620 50982 345428 E-02		A12	=	.29620 50982 345428 E-02
A111	=	-.67787 21754 688946 E-01		A111	=	-.34418 61167 166671 E-03
A222	=	.43837 97894 364058 E-04		A222	=	.12887 82200 305594 E-01
A1111	=	.36670 47252 270246 E-02		A1111	=	.17637 45889 365035 E-04
ER	=	.28189 25648 462312 E-17		FR	=	.86736 17379 884035 E-1A

N = 15

U	=	.30016 66045 464981 E 00		U	=	.58709 67707 377361 E 00
V	=	.58709 67707 377361 E 00		V	=	.30016 66045 464981 E 00
A0	=	.29212 73282 188530 E 02		A0	=	-.21193 18521 669475 E 02
A1	=	-.43801 12595 111918 E 01		A1	=	-.65060 73317 545900 E-01
A2	=	-.33534 34843 427724 E-01		A2	=	.23722 02861 439948 E 01
A11	=	.53503 98406 025141 E 00		A11	=	.27093 96133 908473 E-02
A22	=	-.66843 08026 467308 E-03		A22	=	-.18842 25297 423290 E 00
A12	=	.18220 90388 143324 E-02		A12	=	.18220 90388 143324 E-02
A111	=	-.47963 12912 876804 E-01		A111	=	-.20003 44629 488477 E-03
A222	=	.27196 37831 015949 E-04		A222	=	.80878 22439 205282 E-02
A1111	=	.29187 89448 941164 E-02		A1111	=	.10005 33030 007009 E-04
ER	=	.33610 26734 705064 E-17		ER	=	.86736 17379 884035 E-1A

N = 16

U	=	.29306 07823 596292 E 00		U	=	.57513 65442 305235 E 00
V	=	.57513 65442 305235 E 00		V	=	.29306 07823 596292 E 00
A0	=	.25027 95102 987993 E 02		A0	=	-.16198 27691 205463 E 02
A1	=	-.34859 07256 650899 E 01		A1	=	-.44913 03322 851508 E-01
A2	=	-.21386 61946 321590 E-01		A2	=	.16908 97649 656218 E 01
A11	=	.39312 88731 507995 E 00		A11	=	.19185 65677 324629 E-02
A22	=	-.43407 56792 052859 E-03		A22	=	-.12455 16174 799120 E 00
A12	=	.10899 52393 241186 E-02		A12	=	.10899 52393 241186 E-02
A111	=	-.32050 65705 123650 E-01		A111	=	-.15165 49857 931137 E-03
A222	=	.16390 82538 759460 E-04		A222	=	.49265 20850 957185 E-02
A1111	=	.14221 99150 084374 E-02		A1111	=	.64653 00430 027251 E-05
ER	=	.15178 83041 479706 E-17		ER	=	.21684 04344 971009 E-1A

N = 13

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U    =   .31608 43015 610407 E 00        U    =   .61341 76313 875764 E 00
V    =   .61341 76313 875764 E 00        V    =   .31608 43015 610407 E 00
A0   =   .32662 45121 969326 E 02        A0   =  -.31244 33817 444935 E 02
A1   =  -.57942 00742 491713 E 01        A1   =  -.12283 71413 067629 E 00
A2   =  -.73727 02854 849830 E-01        A2   =   .48867 23123 211574 E 01
A11  =   .85044 31730 754500 E 00        A11  =   .47127 07291 375341 E-02
A22  =  -.14260 56803 407700 E-02        A22  =  -.38467 23101 370611 E 00
A12  =   .46753 42117 848769 E-02        A12  =   .46753 42117 848769 E-02
A111 =  -.92386 03637 594964 E-01        A111 =  -.48954 15239 916204 E-03
A222 =   .68527 93917 047422 E-04        A222 =   .19897 18937 067866 E-01
A1111=   .56141 61287 331418 E-02        A1111=   .27903 47315 810476 E-04
ER   =   .95409 79117 872439 E-17        FR   =   .43368 08689 942018 E-18
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N = 14

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U    =   .30781 66553 306861 E 00        U    =   .59982 86098 932625 E 00
V    =   .59982 86098 932625 E 00        V    =   .30781 66553 306861 E 00
A0   =   .32023 58974 167001 E 02        A0   =  -.26425 35750 904939 E 02
A1   =  -.52022 32551 074343 E 01        A1   =  -.91065 28216 147211 E-01
A2   =  -.50710 77621 280004 E-01        A2   =   .31879 71562 119979 E 01
A11  =   .69340 93634 884846 E 00        A11  =   .36617 81005 706235 E-02
A22  =  -.99450 81422 174564 E-03        A22  =  -.27469 11111 108605 E 00
A12  =   .29620 50982 345428 E-02        A12  =   .29620 50982 345428 E-02
A111 =  -.67787 21754 688946 E-01        A111 =  -.34418 61167 166671 E-03
A222 =   .43837 97894 364058 E-04        A222 =   .12887 82200 305594 E-01
A1111=   .36670 47252 270246 E-02        A1111=   .17637 45889 365035 E-04
ER   =   .28189 25648 462312 E-17        ER   =   .86736 17379 884035 E-18
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N = 15

```
U    =   .30016 66045 464981 E 00        U    =   .58709 67707 377361 E 00
V    =   .58709 67707 377361 E 00        V    =   .30016 66045 464981 E 00
A0   =   .29212 73282 188530 E 02        A0   =  -.21193 18521 669475 E 02
A1   =  -.43801 12595 111918 E 01        A1   =  -.65060 73317 545900 E-01
A2   =  -.33534 34843 427724 E-01        A2   =   .23722 02861 439948 E 01
A11  =   .53503 98406 025141 E 00        A11  =   .27093 96133 908473 E-02
A22  =  -.66843 08026 467308 E-03        A22  =  -.18842 25297 423290 E 00
A12  =   .18220 90388 143324 E-02        A12  =   .18220 90388 143324 E-02
A111 =  -.47363 12912 570204 E-01        A111 =  -.▓▓▓▓▓ ▓▓▓▓▓ ▓▓▓▓▓▓ E-03
A222 =   .27196 37831 015949 E-04        A222 =   .80878 22439 205282 E-02
A1111=   .23187 89648 541164 E-02        A1111=   .▓▓▓▓▓ ▓▓▓▓▓ ▓▓▓▓▓▓ E-04
ER   =   .33610 26734 705064 E-17        ER   =   .86736 17379 884035 E-18
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N = 16

```
U    =   .29306 07823 596292 E 00        U    =   .57513 65442 305235 E 00
V    =   .57513 65442 305235 E 00        V    =   .29306 07823 596292 E 00
A0   =   .25027 95102 987993 E 02        A0   =  -.16198 27691 205463 E 02
A1   =  -.34859 07256 650899 E 01        A1   =  -.44913 03322 851508 E-01
A2   =  -.21386 61966 321590 E-01        A2   =   .16908 97649 656218 E 01
A11  =   .39312 88731 507995 E 00        A11  =   .19185 65677 324629 E-02
A22  =  -.43407 56792 052859 E-03        A22  =  -.12455 16174 799120 E 00
A12  =   .10899 52393 241186 E-02        A12  =   .10899 52393 241186 E-02
A111 =  -.32050 65705 123650 E-01        A111 =  -.15165 49857 931137 E-03
A222 =   .16390 82538 759460 E-04        A222 =   .49265 20850 957185 E-02
A1111=   .14221 99150 084374 E-02        A1111=   .64633 00430 027251 E-05
ER   =   .15178 83041 479706 E-17        ER   =   .21684 04344 971009 E-18
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N - SPHERE, DEGREE 11

N = 1

U	.93246 95142 031486 E 00		U	.93246 95142 031486 E 00
V	.23861 91860 832016 E 00		V	.66120 93864 662671 E 00
W	.66120 93864 662671 E 00		W	.23861 91860 832016 E 00
A0	-.36859 40441 755520 E-13		A0	-.36859 40441 755520 E-13
A1	.17132 44923 791752 E 00		A1	.17132 44923 791752 E 00
A2	.46791 39345 727199 E 00		A2	.36076 15730 481233 E 00
A3	.36076 15730 481233 E 00		A3	.46791 39345 727199 E 00
A11	.00000 00000 000000 E 00		A11	.00000 00000 000000 E 00
A22	.00000 00000 000000 E 00		A22	.00000 00000 000000 E 00
A33	.00000 00000 000000 E 00		A33	.00000 00000 000000 E 00
A12	.00000 00000 000000 E 00		A12	.00000 00000 000000 E 00
A13	.00000 00000 000000 E 00		A13	.00000 00000 000000 E 00
A111	.00000 00000 000000 E 00		A111	.00000 00000 000000 E 00
A222	.00000 00000 000000 E 00		A222	.00000 00000 000000 E 00
A333	.00000 00000 000000 E 00		A333	.00000 00000 000000 E 00
A112	.00000 00000 000000 E 00		A112	.00000 00000 000000 E 00
A1111	.00000 00000 000000 E 00		A1111	.00000 00000 000000 E 00
A2222	.00000 00000 000000 E 00		A2222	.00000 00000 000000 E 00
A11111	.00000 00000 000000 E 00		A11111	.00000 00000 000000 E 00
ER	.17624 79051 592436 E-14		ER	.17624 79051 592436 E-14

N = 2

U	.90096 88679 024139 E 00		U	.90096 88679 024139 E 00
V	.22252 09339 563214 E 00		V	.62348 98018 587395 E 00
W	.62348 98018 587395 E 00		W	.22252 09339 563214 E 00
A0	.18085 80210 585985 E 01		A0	.18085 80210 585985 E 01
A1	-.53985 44656 449920 E-01		A1	-.53985 44656 449926 E-01
A2	-.11036 05533 164740 E 01		A2	.25330 08744 362205 E 00
A3	.25330 08744 362139 E 00		A3	-.11036 05533 164736 E 01
A11	.13062 74656 478077 E-02		A11	.13062 74656 478081 E-02
A22	.86462 54719 688606 E 00		A22	.15126 11903 839063 E 00
A33	.15126 11903 839064 E 00		A33	.86462 54719 688571 E 00
A12	.11375 37110 496177 E 00		A12	-.35785 71532 254618 E-02
A13	-.35785 71532 254618 E-02		A13	.11375 37110 496177 E 00
A111	.00000 00000 000000 E 00		A111	.00000 00000 000000 E 00
A222	.00000 00000 000000 E 00		A222	.00000 00000 000000 E 00
A333	.00000 00000 000000 E 00		A333	.00000 00000 000000 E 00
A112	.00000 00000 000000 E 00		A112	.00000 00000 000000 E 00
A1111	.00000 00000 000000 E 00		A1111	.00000 00000 000000 E 00
A2222	.00000 00000 000000 E 00		A2222	.00000 00000 000000 E 00
A11111	.00000 00000 000000 E 00		A11111	.00000 00000 000000 E 00
ER	.23453 46139 520643 E-14		ER	.24008 57290 751901 E-14

N = 5

U	.81984 59954 634879 E 00	U	.81984 59954 634879 E 00
V	.54060 46373 873614 E 00	V	.18867 74224 907850 E 00
W	.18867 74224 907850 E 00	W	.54060 46373 873614 E 00
A0	-.45534 64123 522178 E 03	A0	.10197 94792 630031 E 04
A1	-.64319 80571 794631 E 00	A1	-.46387 66227 631447 E 00
A2	-.31372 39109 375084 E 00	A2	-.43506 63661 872288 E 03
A3	.14286 38998 512415 E 03	A3	.43186 98627 452811 E-01
A11	-.11504 41963 046019 E-02	A11	-.22923 47168 285471 E-01
A22	.14948 46888 985861 E 00	A22	.17458 67023 180353 E 03
A33	-.37383 13141 858235 E 02	A33	.26173 13043 605252 E-01
A12	-.14146 94450 492822 E-01	A12	.77966 49965 825793 E-01
A13	.10486 39705 362656 E 00	A13	-.49481 81463 288640 E-02
A111	-.97307 01789 775343 E-03	A111	-.47332 70762 221026 E-03
A222	-.86223 46400 738993 E-02	A222	-.62513 72129 832540 E 02
A333	.65447 69252 505115 E 01	A333	.24372 11556 862518 E-01
A112	.15331 27173 606596 E-02	A112	.44829 11813 001279 E-02
A1111	-.61192 84431 288976 E-04	A1111	.28462 42536 277583 E-04
A2222	.62212 67779 470901 E-02	A2222	.16865 09246 403043 E 02
A11111	.88727 41973 026737 E-05	A11111	.88727 41973 026737 E-05
ER	.45102 81037 539698 E-16	ER	.65919 49208 711867 E-16

N = 6

U	.79683 73566 406826 E 00	U	.79683 73566 406826 E 00
V	.51961 46456 949126 E 00	V	.18041 79569 647765 E 00
W	.18041 79569 647765 E 00	W	.51961 46456 949126 E 00
A0	-.86398 47579 730448 E 03	A0	.31787 24922 283479 E 04
A1	-.70986 09810 548029 E 00	A1	-.48548 47390 955779 E 00
A2	-.55730 40061 883114 E 00	A2	-.11050 07539 909584 E 04
A3	.22445 64432 945320 E 03	A3	.11151 06835 335892 E 00
A11	-.22041 41727 924756 E-02	A11	-.26175 41040 153009 E-01
A22	.16935 19420 139244 E 00	A22	.34649 17775 467886 E 03
A33	-.46632 42754 361011 E 02	A33	-.18709 82461 272142 E-01
A12	-.14466 47379 583123 E-01	A12	.60385 66529 006088 E-01
A13	.90663 40308 757783 E-01	A13	-.45210 94643 849047 E-02
A111	-.63883 95219 745191 E-03	A111	-.39833 36707 299562 E-03
A222	-.18283 73638 639097 E-01	A222	-.90773 64852 850313 E 02
A333	.60673 01124 713842 E 01	A333	.21856 52801 580126 E-01
A112	.12431 72393 997774 E-02	A112	.37847 17224 689622 E-02
A1111	-.62529 22119 183337 E-04	A1111	.09234 12896 253695 E-05
A2222	.55441 81191 287197 E-02	A2222	.15900 14133 897217 E 02
A11111	.72766 63246 921620 E-05	A11111	.72766 63246 921620 E-05
ER	.13010 42606 982605 E-15	ER	.40766 00168 545497 E-15

N = 3

U	.87174 01485 096006 E 00	U	.87174 01485 096006 E 00
V	.20929 92179 024842 E 00	V	.59170 01814 331475 E 00
W	.59170 01814 331475 E 00	W	.20929 92179 024842 E 00
A0	-.24185 89492 267571 E 02	A0	-.369E3 84228 042203 E 02
A1	-.26061 50439 028699 E 00	A1	-.29228 14987 614287 E 00
A2	.13592 07108 668297 E 02	A2	.98155 41211 665929 E-01
A3	.12864 47823 284017 E 00	A3	.20041 70059 062642 E 02
A11	-.82736 24575 089196 E-02	A11	.91564 94608 527017 E-03
A22	-.77325 99980 462300 E 01	A22	.14088 15856 550557 E 00
A33	.12152 92678 233480 E 00	A33	-.10968 16631 855320 E 02
A12	.10743 00929 909056 E 00	A12	-.86791 04329 518984 E-02
A13	-.45714 71603 682958 E-02	A13	.11818 16791 100791 E 00
A111	-.45457 34690 836316 E-03	A111	-.17272 33790 385827 E-02
A222	.45315 29942 363461 E 01	A222	.15321 75677 178620 E-01
A333	.24997 91568 764001 E-01	A333	.61493 13111 408914 E 01
A112	.53757 93059 586769 E-02	A112	.20538 16362 918013 E-02
A1111	.00000 00000 000000 E 00	A1111	.00000 00000 000000 E 00
A2222	.00000 00000 000000 E 00	A2222	.00000 00000 000000 E 00
A11111	.00000 00000 000000 E 00	A11111	.00000 00000 000000 E 00
ER	.18318 67990 631508 E-14	ER	.18457 45778 439323 E-14

N = 4

U	.84475 06035 184535 E 00	U	.84475 06035 184535 E 00
V	.19818 73233 254688 E 00	V	.56439 94810 033611 E 00
W	.56439 94810 033611 E 00	W	.19818 73233 254688 E 00
A0	.14284 11409 85091R E 03	A0	-.17625 20775 814244 E 03
A1	-.40996 91702 545061 E 00	A1	-.49946 28810 472934 E 00
A2	-.83335 59663 291600 E 02	A2	-.92279 37358 738436 E-01
A3	.47723 35368 180619 E-01	A3	.69857 31531 384479 E 02
A11	-.16771 33843 371204 E-01	A11	-.17934 27487 367834 E-04
A22	.48604 69771 664351 E 02	A22	.13890 95336 185626 E 00
A33	.76226 58785 889364 E-01	A33	-.24690 71693 665059 E 02
A12	.94580 06833 369292 E-01	A12	-.12257 83000 826028 E-01
A13	-.50062 25166 338696 E-02	A13	.11476 53913 286127 E 00
A111	-.49886 78194 055007 E-03	A111	-.13457 03356 546166 E-02
A222	-.28386 90349 495322 E 02	A222	.33080 45590 426735 E 01
A333	.25551 60590 135631 E-01	A333	.65951 44179 484431 E 01
A112	.50463 30748 729939 E-02	A112	.18129 01210 480395 E-02
A1111	.53590 32110 278720 E-04	A1111	-.54495 64321 659286 E-04
A2222	.16658 19401 103412 E 02	A2222	.65728 23871 012289 E-02
A11111	.00000 00000 000000 E 00	A11111	.00000 00000 000000 E 00
ER	.36776 13760 070831 E-15	ER	.38163 91647 148976 E-15

N = 7

U	.77553 55259 865770 E 00	
V	.50091 34932 118874 E 00	
W	.17315 67539 181106 E 00	
A0	-.13398 77063 808028 E 04	
A1	-.70391 84111 448599 E 00	
A2	-.80152 50839 542042 E 00	
A3	.29704 77411 536758 E 03	
A11	-.29934 26259 455370 E-02	
A22	.19085 14667 697251 E 00	
A33	-.51165 24956 760543 E 02	
A12	-.13552 12489 636060 E-01	
A13	.74524 24633 019358 E-01	
A111	-.36490 73016 748506 E-03	
A222	-.24450 80385 349025 E-01	
A333	.52943 27319 430337 E 01	
A112	.96808 36516 122595 E-03	
A1111	-.59119 87592 641246 E-04	
A2222	.46786 78225 399868 E-02	
A11111	.57160 31677 275346 E-05	
ER	.52041 70427 930421 E-16	

U	.77553 55259 865770 E 00
V	.17315 67539 181106 E 00
W	.50091 34932 118874 E 00
A0	.68796 20305 454771 E 04
A1	-.43283 84825 477731 E 00
A2	-.20283 89928 967745 E 04
A3	.22272 74352 130166 E 00
A11	-.26641 51225 524723 E-01
A22	.52410 69872 009635 E 03
A33	-.51920 49927 959763 E-01
A12	.44041 98879 374739 E-01
A13	-.38712 88380 238008 E-02
A111	-.29938 66291 476933 E-03
A222	-.10853 35392 046651 E 03
A333	.18541 10565 304141 E-01
A112	.30482 25753 644619 E-02
A1111	-.43334 19671 493804 E-05
A2222	.14075 16071 180963 E 02
A11111	.57160 31677 275346 E-05
ER	.79797 27989 493313 E-16

N = 8

U	.75576 44947 253204 E 00
V	.48410 94361 960834 E 00
W	.16670 75752 082878 E 00
A0	-.17916 19529 203525 E 04
A1	-.64225 75982 736421 E 00
A2	-.10148 15265 576979 E 01
A3	.34641 39684 204552 E 03
A11	-.34327 43137 071748 E-02
A22	.20600 65180 193689 E 00
A33	-.50952 02360 111835 E 02
A12	-.11838 30729 897110 E-01
A13	.50478 14399 734960 E-01
A111	-.16091 74398 928069 E-03
A222	-.26923 09150 895444 E-01
A333	.43751 36029 682597 E 01
A112	.72531 06520 236433 E-03
A1111	-.52315 53761 931708 E-04
A2222	.37568 86751 556607 E-02
A11111	.43119 29475 853765 E-05
ER	.62450 04513 516506 E-16

U	.75576 44947 253204 E 00
V	.16670 75752 002878 E 00
W	.48410 94361 960834 E 00
A0	.11834 39923 096673 E 05
A1	-.34985 42957 109517 E 00
A2	-.30342 09271 807223 E 04
A3	.33807 56870 647010 E 00
A11	-.24898 61860 037784 E-01
A22	.66755 36614 090863 E 03
A33	-.71105 08092 771450 E-01
A12	.30277 99495 961424 E-01
A13	-.31345 79474 687385 E-02
A111	-.19919 71747 402448 E-03
A222	-.11438 31646 426137 E 03
A333	.14953 97549 441895 E-01
A112	.23500 12419 811879 E-02
A1111	-.11835 35315 226070 E-04
A2222	.11776 56538 428918 E 02
A11111	.43119 29475 853765 E-05
ER	.24286 12866 367530 E-16

N = 9

U	.73736 57361 102341 E 00	U	.73736 57361 102341 E 00
V	.46889 99449 180328 E 00	V	.16092 94785 830227 E 00
W	.16092 94785 830227 E 00	W	.46889 99449 180328 E 00
A0	-.21321 13542 218759 E 04	A0	.17249 59619 271478 E 05
A1	-.54688 10394 375155 E 00	A1	-.25863 23762 138187 E 00
A2	-.11657 19224 085713 E 01	A2	-.39150 49388 212286 E 04
A3	.36552 07305 717360 E 03	A3	.42561 61532 982679 E 00
A11	-.35238 18518 063910 E-02	A11	-.21728 24436 627403 E-01
A22	.20959 72551 642955 E 00	A22	.75037 18883 581616 E 03
A33	-.46905 01661 114659 E 02	A33	-.77355 18864 016511 E-01
A12	-.97491 57392 521742 E-02	A12	.19606 95000 948568 E-01
A13	.43958 87899 299259 E-01	A13	-.24154 91629 534815 E-02
A111	-.24728 59376 811807 E-04	A111	-.11322 99419 828323 E-03
A222	-.26274 05579 245683 E-01	A222	-.10968 87710 650668 E 03
A333	.34412 83902 524160 E 01	A333	.11515 80216 539215 E-01
A112	.52383 32687 847804 E-03	A112	.17394 23498 821922 E-02
A1111	-.43691 92796 314763 E-04	A1111	-.14820 71959 771717 E-04
A2222	.28822 09138 159822 E-02	A2222	.93636 17435 440053 E 01
A11111	.31311 82159 601297 E-05	A11111	.31311 82159 601297 E-05
ER	.46837 53385 137379 E-16	ER	.79797 27989 493313 E-16

N = 10

U	.72019 86611 936416 E 00	U	.72019 86611 936416 E 00
V	.45504 63425 159458 E 00	V	.15571 35658 115474 E 00
W	.15571 35658 115474 E 00	W	.45504 63425 159458 E 00
A0	-.23056 48546 755996 E 04	A0	.22105 97981 820719 E 05
A1	-.43870 40271 198691 E 00	A1	-.17504 21306 030998 E 00
A2	-.12337 39567 852982 E 01	A2	-.45022 79027 258354 E 04
A3	.35503 26665 144721 E 03	A3	.46840 75541 499606 E 00
A11	-.33289 69748 550283 E-02	A11	-.17896 99894 692751 E-01
A22	.20030 82845 775245 E 00	A22	.76464 20378 560266 E 03
A33	-.40402 30149 168429 E 02	A33	-.73811 42486 041870 E-01
A12	-.76260 32289 713419 E-02	A12	.11922 58648 660318 E-01
A13	.31752 98825 313427 E-01	A13	-.17801 58729 408860 E-02
A111	.54101 12362 262003 E-04	A111	-.48794 22843 750167 E-04
A222	-.23474 30505 654287 E-01	A222	-.97476 21334 450424 E 02
A333	.25871 59690 575017 E 01	A333	.84981 22635 324873 E-02
A112	.36536 70975 190349 E-03	A112	.12303 93860 408193 E-02
A1111	-.34658 26233 862959 E-04	A1111	-.14748 20318 583775 E-04
A2222	.21199 92264 570912 E-02	A2222	.71068 71689 406762 E 01
A11111	.21936 29494 840098 E-05	A11111	.21936 29494 840098 E-05
ER	.32526 06517 456513 E-16	ER	.10625 18129 035794 E-15

N = 11

U	.70413 94749 102834 E 00
V	.44235 74463 995047 E 00
W	.15097 41824 740033 E 00
A0	-.22990 65606 081776 E 04
A1	-.33379 45494 789936 E 00
A2	-.12151 94416 805492 E 01
A3	.32131 48110 179795 E 03
A11	-.29402 27582 503302 E-02
A22	.18017 67660 606450 E 00
A33	-.32845 26185 823808 E 02
A12	-.56974 64164 487802 E-02
A13	.22098 59739 068748 E-01
A111	.89932 79009 584592 E-04
A222	-.19547 70485 697587 E-01
A333	.18657 25359 803324 E 01
A112	.24654 87373 515902 E-03
A1111	-.26243 74037 530349 E-04
A2222	.14995 74070 361811 E-02
A11111	.14856 32926 725398 E-05
ER	.18431 43693 225358 E-17

U	.70413 94749 102834 E 00
V	.15097 41824 740033 E 00
W	.44235 74463 995047 E 00
A0	.25510 53244 651179 E 05
A1	-.10761 96608 139848 E 00
A2	-.47129 00137 849588 E 04
A3	.46493 38184 333476 E 00
A11	-.14018 75876 678818 E-01
A22	.71868 10587 595477 E 03
A33	-.64253 49011 293413 E-01
A12	.67600 40177 604417 E-02
A13	-.12595 86892 159178 E-02
A111	-.65662 08840 460513 E-05
A222	-.81233 98475 904293 E 02
A333	.60283 46382 228558 E-02
A112	.85214 20673 935034 E-03
A1111	-.12946 28742 819272 E-04
A2222	.51685 30982 787824 E 01
A11111	.14856 32926 725398 E-05
ER	.14430 73091 578206 E-15

N = 12

U	.68907 94619 055428 E 00
V	.43067 79957 145898 E 00
W	.14664 29030 175442 E 00
A0	-.21369 20535 517403 E 04
A1	-.24211 65633 338937 E 00
A2	-.11224 39567 468448 E 01
A3	.27340 21542 488956 E 03
A11	-.24525 29900 957703 E-02
A22	.15314 66047 409872 E 00
A33	-.25365 64976 728006 E 02
A12	-.40829 35463 702266 E-02
A13	.14853 01464 430929 E-01
A111	.97295 09049 144799 E-04
A222	-.15344 28567 874915 E-01
A333	.12945 59377 819425 E 01
A112	.16122 57251 066655 E-03
A1111	-.19046 92728 272194 E-04
A2222	.10227 55910 574027 E-02
A11111	.97442 96773 033508 E-06
ER	.99746 59986 866641 E-17

U	.68907 94619 055428 E 00
V	.14664 29030 175442 E 00
W	.43067 79957 145898 E 00
A0	.26955 00594 167202 E 05
A1	-.58725 66520 544598 E-01
A2	-.45568 98124 059420 E 04
A3	.42457 53420 020986 E 00
A11	-.10501 21248 200145 E-01
A22	.63056 63845 196826 E 03
A33	-.52080 98343 836765 E-01
A12	.35221 37712 764170 E-02
A13	-.85842 09615 689568 E-03
A111	.16882 87516 255136 E-04
A222	-.64022 41678 019260 E 02
A333	.41218 96925 384849 E-02
A112	.56654 38465 772560 E-03
A1111	-.10432 68029 266714 E-04
A2222	.36133 74938 184876 E 01
A11111	.97442 96773 033508 E-06
ER	.16913 55389 077387 E-16

N = 13

U	.67492 31669 584040 E 00	
V	.41988 03696 523667 E 00	
W	.14266 43155 344395 E 00	
A0	-.18668 87356 812704 E 04	
A1	-.16808 54700 155904 E 00	
A2	-.97826 25982 550035 E 00	
A3	.22023 71213 215209 E 03	
A11	-.19456 35899 470746 E-02	
A22	.12354 45086 352146 E 00	
A33	-.18704 37019 363851 E 02	
A12	-.28162 07204 509378 E-02	
A13	.96614 19225 070463 E-02	
A111	.88477 85919 546499 E-04	
A222	-.11443 02002 938506 E-01	
A333	.86655 69278 200547 E 00	
A112	.10232 80544 599557 E-03	
A1111	-.13294 44007 193014 E-04	
A2222	.67414 51467 424897 E-03	
A11111	.62002 20181 775330 E-06	
ER	.42283 88472 693467 E-17	

U	.67492 31669 584040 E 00
V	.14266 43155 344395 E 00
W	.41988 03696 523667 E 00
A0	.26398 43099 202753 E 05
A1	-.26674 51203 374344 E-01
A2	-.41138 02549 461079 E 04
A3	.36156 72389 537448 E 00
A11	-.75553 22143 713215 E-02
A22	.52105 19277 628505 E 03
A33	-.39796 50575 808380 E-01
A12	.16331 47140 053994 E-02
A13	-.56499 00063 903522 E-03
A111	.26664 91625 474671 E-04
A222	-.48019 40621 372767 E 02
A333	.27230 23001 371566 E-02
A112	.36492 14584 098391 E-03
A1111	-.78739 12335 380837 E-05
A2222	.24351 58596 398003 E 01
A11111	.62002 20181 775330 E-06
ER	.17604 17945 496343 E-15

N = 14

U	.66158 66715 569896 E 00
V	.40985 85381 360809 E 00
W	.13899 30024 681096 E 00
A0	-.15431 24652 875498 E 04
A1	-.11203 99783 667652 E 00
A2	-.80867 33609 084434 E 00
A3	.16888 38121 429359 E 03
A11	-.14756 37917 644388 E-02
A22	.94986 43458 948172 E-01
A33	-.13223 79781 197348 E 02
A12	-.18749 66868 045942 E-02
A13	.60933 18336 710241 E-02
A111	.72509 96018 024892 E-04
A222	-.81541 71362 565503 E-02
A333	.56089 27141 350168 E 00
A112	.63125 52766 454758 E-04
A1111	-.89495 12153 562629 E-05
A2222	.43033 17780 902162 E-03
A11111	.38330 52039 936603 E-06
ER	.11790 69862 577996 E-16

U	.66158 66715 569896 E 00
V	.13899 30024 681096 E 00
W	.40985 85381 360809 E 00
A0	.24187 37074 203539 E 05
A1	-.78425 04194 998878 E-02
A2	-.34960 25448 965158 E 04
A3	.28994 26667 292124 E 00
A11	-.52391 42570 892211 E-02
A22	.40825 34520 117717 E 03
A33	-.28906 69974 929949 E-01
A12	.61856 69529 982507 E-03
A13	-.35995 42040 968002 E-03
A111	.27840 17225 531380 E-04
A222	-.34445 11911 986014 E 02
A333	.17416 92127 209412 E-02
A112	.22811 46409 879996 E-03
A1111	-.56319 33200 216296 E-05
A2222	.15858 59978 000524 E 01
A11111	.38330 52039 936603 E-06
ER	.10570 97118 173367 E-16

N = 15

U	.64899 60439 238621 E 00	U	.64899 60439 238621 E 00
V	.40052 35631 390482 E 00	V	.13559 13357 909659 E 00
W	.13559 13357 909659 E 00	W	.40052 35631 390482 E 00
A0	-.12132 64359 191587 E 04	A0	.20886 28933 139855 E 05
A1	-.71890 32675 454190 E-01	A1	.17662 03465 939725 E-02
A2	-.63684 97428 777711 E 00	A2	-.28149 47472 228236 E 04
A3	.12383 46397 030354 E 03	A3	.22053 96413 472337 E 00
A11	-.10742 83887 899403 E-02	A11	-.35115 82589 569085 E-02
A22	.69865 95786 464980 E-01	A22	.30493 49046 464586 E 03
A33	-.89943 18090 270695 E 01	A33	-.20078 73540 394569 E-01
A12	-.12078 27128 277971 E-02	A12	.12869 95475 118400 E-03
A13	.37323 32188 822107 E-02	A13	-.22242 64120 722179 E-03
A111	.55174 91278 360408 E-04	A111	.24487 08458 301181 E-04
A222	-.55769 44572 983721 E-02	A222	-.23723 88700 784563 E 02
A333	.35176 89954 051351 E 00	A333	.10806 04441 867073 E-02
A112	.37900 02754 637511 E-04	A112	.13860 12584 350103 E-03
A1111	-.58247 16466 796621 E-05	A1111	-.38473 11627 756356 E-05
A2222	.26651 14778 766809 E-03	A2222	.19001 21260 663430 E 01
A11111	.23055 24991 237474 E-06	A11111	.23055 24991 237474 E-06
ER	.19651 16437 629977 E-17	ER	.38881 31789 017201 E-17

N = 16

U	.63708 59815 948063 E 00	U	.63708 59815 948063 E 00
V	.39180 01996 169551 E 00	V	.13242 78390 617763 F 00
W	.13242 78390 617763 E 00	W	.39180 01996 169551 E 00
A0	-.91137 55158 991630 E 03	A0	.17098 93001 457441 E 05
A1	-.44497 56738 769619 E-01	A1	.56177 31031 089305 E-02
A2	-.47962 72640 293435 E 00	A2	-.21587 28574 889280 E 04
A3	.87150 66792 562365 E 02	A3	.16001 76833 851113 E 00
A11	-.75315 97234 700032 E-03	A11	-.22804 60464 468328 E-02
A22	.49327 95664 907356 E-01	A22	.21807 48699 077778 E 03
A33	-.59024 08977 197763 E 01	A33	-.13397 65941 791571 F-01
A12	-.75439 30573 713663 E-03	A12	-.71446 58598 507835 E-04
A13	.22236 96588 097023 E-02	A13	-.13354 25203 853121 E-03
A111	.39607 95787 946297 E-04	A111	.19419 69196 618626 E-04
A222	-.36739 69982 159407 E-02	A222	-.15740 27779 502436 E 02
A333	.21415 01173 827167 E 00	A333	.65142 01312 016489 E-03
A112	.22173 23346 378765 E-04	A112	.81960 39907 436076 E-04
A1111	-.36729 79698 753848 E-05	A1111	-.25238 60057 341689 E-05
A2222	.16039 91953 492300 E-03	A2222	.61194 31391 824791 F 00
A11111	.13509 46711 779126 E-06	A11111	.13509 46711 779126 E-06
ER	.22361 66980 751353 E-18	ER	.25953 08950 387176 E-17

N = 17

U	.38362 42906 238422 E 00	U	.38362 42906 238422 E 00
V	.62579 86394 320824 E 00	V	.12947 59517 588739 E 00
W	.12947 59517 588739 E 00	W	.62579 86394 320824 E 00
A0	-.68052 32320 343134 E 03	A0	.55551 68687 341381 E 04
A1	-.33125 25708 482342 E 00	A1	.25596 84568 988851 E 01
A2	.12459 20503 929343 E-01	A2	-.64272 00817 000868 E 03
A3	.60586 46249 921748 E 02	A3	-.25015 16496 439137 E-02
A11	-.40179 63414 434103 E-02	A11	-.87008 15150 751964 E-01
A22	-.21305 84781 711821 E-04	A22	.59060 61187 205945 E 02
A33	-.38028 69352 514248 E 01	A33	-.62827 14035 963330 E-04
A12	-.86289 84274 750099 E-03	A12	-.73067 52472 481083 E-01
A13	.98711 93904 934437 E-02	A13	.14738 37553 257950 E-03
A111	.13223 93791 431049 E-02	A111	.18437 90842 990314 E-02
A222	.37381 23789 225532 E-05	A222	-.38510 82434 224716 E 01
A333	.12675 52892 764797 E 00	A333	.17505 87446 476639 E-05
A112	.33676 07276 002683 E-04	A112	.27646 23954 324843 E-02
A1111	-.17391 54369 412004 E-03	A1111	-.20863 01033 712880 E-03
A2222	-.24082 71019 642346 E-06	A2222	.13445 63106 677670 E 00
A11111	.10302 56704 888524 E-04	A11111	.10302 56704 888524 E-04
ER	.11011 42831 430590 E-18	ER	.27494 68946 787459 E-17

N = 18

U	.37594 07454 580377 E 00	U	.37594 07454 580377 E 00
V	.61508 26252 944832 E 00	V	.12671 30840 899563 E 00
W	.12671 30840 899563 E 00	W	.61508 26252 944832 E 00
A0	-.47081 00627 185817 E 03	A0	.40638 01881 953621 E 04
A1	-.18943 57641 151116 E 00	A1	.14868 94850 867240 E 01
A2	.80615 40907 551565 E-02	A2	-.44438 26087 532499 E 03
A3	.39568 82106 216774 E 02	A3	-.14926 98319 594022 E-02
A11	-.44991 75900 554141 E-02	A11	-.55888 54151 559914 E-01
A22	-.16016 41703 537478 E-04	A22	.38466 91561 153610 E 02
A33	-.23373 64660 394223 E 01	A33	-.37130 85426 384219 E-04
A12	-.52179 77905 350795 E-03	A12	-.45297 64510 463040 E-01
A13	.56531 27492 048057 E-02	A13	.82398 67943 554467 E-04
A111	.99558 56638 842957 E-03	A111	.13214 47070 472669 E-02
A222	.23011 31682 042459 E-05	A222	-.23538 43864 256446 E 01
A333	.73052 23802 770389 E-01	A333	.98583 65432 018412 E-06
A112	.18881 13968 658201 E-04	A112	.15922 11643 646202 E-02
A1111	-.11217 89257 413867 E-03	A1111	-.13173 05414 132426 E-03
A2222	-.13167 47534 820159 E-06	A2222	.76784 36458 575810 E-01
A11111	.59217 02198 233101 E-05	A11111	.59217 02198 233101 E-05
ER	.29053 23009 082250 E-18	ER	.34474 24095 325002 E-18

N = 19

U	.36870	19521	513683	E 00
V	.60489	21424	273841	E 00
W	.12411	98848	683197	E 00
A0	-.31427	88033	676112	E 03
A1	-.10245	81919	714503	E 00
A2	.50517	25413	000456	E-02
A3	.25011	21456	153571	E 02
A11	-.40436	37478	721738	E-02
A22	-.11181	34117	556041	E-04
A33	-.13952	38790	160125	E 01
A12	-.30665	48770	549202	E-03
A13	.31580	03790	831313	E-02
A111	.70354	48564	041982	E-03
A222	.13691	18704	720787	E-05
A333	.41048	00785	353235	E-01
A112	.10343	37659	005297	E-04
A1111	-.69707	62161	681692	E-04
A2222	-.70459	70499	525581	E-07
A11111	.33192	03908	244729	E-05
ER	.12197	27444	046192	E-18

U	.36870	19521	513683	E 00
V	.12411	98848	683197	E 00
W	.60489	21424	273841	E 00
A0	.28578	56968	253513	E 04
A1	.95950	75342	666368	E 00
A2	-.29626	29363	483094	E 03
A3	-.86459	87239	359303	E-03
A11	-.34943	85350	070314	E-01
A22	.24239	69827	274282	E 02
A33	-.21394	77779	063115	E-04
A12	-.27241	38674	416918	E-01
A13	.45019	92700	688882	E-04
A111	.90066	27341	528791	E-03
A222	-.13972	71352	784679	E 01
A333	.54215	86193	575749	E-06
A112	.89409	97216	176616	E-03
A1111	-.80460	39285	286912	E-04
A2222	.42771	91396	837543	E-01
A11111	.33192	03908	244729	E-05
ER	.29205	69602	132828	E-17

N = 20

U	.36186	65178	564599	E 00
V	.59518	62579	649183	E 00
W	.12167	96679	160466	E 00
A0	-.20289	00960	801619	E 03
A1	-.51937	37961	133674	E-01
A2	.30718	05168	076790	E-02
A3	.15331	76324	972280	E 02
A11	-.32213	97775	244212	E-02
A22	-.73724	77568	926458	E-05
A33	-.81019	09549	541561	E 00
A12	-.17543	74740	000025	E-03
A13	.17228	04287	453366	E-02
A111	.47201	21585	988626	E-03
A222	.78983	27191	221557	E-06
A333	.22514	60153	321693	E-01
A112	.55416	13878	922533	E-05
A1111	-.41876	12114	628775	E-04
A2222	-.36928	67429	553600	E-07
A11111	.18164	15276	654617	E-05
ER	.24987	47194	400186	E-19

U	.36186	65178	564590	E 00
V	.12167	96679	160466	E 00
W	.59518	62579	649183	E 00
A0	.19374	46676	840809	E 04
A1	.60048	10143	349663	E 00
A2	-.19092	29334	412345	E 03
A3	-.48699	58482	826751	E-03
A11	-.21293	47707	570463	E-01
A22	.14809	45971	555739	E 02
A33	-.12031	81100	335488	E-04
A12	-.15921	67670	008136	E-01
A13	.24060	62564	120869	E-04
A111	.58770	25017	802007	E-03
A222	-.80690	61035	388690	E 00
A333	.20147	13668	321091	E-06
A112	.49012	44718	759647	E-03
A1111	-.47686	78011	827671	E-04
A2222	.23267	13645	768796	E-01
A11111	.18164	15276	654617	E-05
ER	.10354	97778	018382	E-17

$N = 1$

U	=	.16506 80123 885785 E 01
V	=	.52464 76232 752900 E 00
A0	=	-.24424 90654 175344 E-14
A1	=	.81312 83544 724514 E-01
A2	=	.80491 40900 055142 E 00
A11	=	.00000 00000 000000 E 00
A22	=	.00000 00000 000000 E 00
A111	=	.00000 00000 000000 E 00
ER	=	.88817 84197 001252 E-15

U	=	.52464 76232 752900 E 00
V	=	.16506 80123 885785 E 01
A0	=	-.24424 90654 175344 E-14
A1	=	.80491 40900 055142 E 00
A2	=	.81312 83544 724514 E-01
A11	=	.00000 00000 000000 E 00
A22	=	.00000 00000 000000 E 00
A111	=	.00000 00000 000000 E 00
ER	=	.88817 84197 001252 E-15

$N = 2$

U	=	.16506 80123 885785 E 01
V	=	.52464 76232 752900 E 00
A0	=	.20943 95102 393208 E 01
A1	=	.11767 61394 826331 E 00
A2	=	-.11648 73690 679239 E 01
A11	=	.13223 55441 694154 E-01
A22	=	.12957 73384 578811 E 01
A111	=	.00000 00000 000000 E 00
ER	=	.26645 35259 100376 E-14

U	=	.52464 76232 752900 E 00
V	=	.16506 80123 885785 E 01
A0	=	.20943 95102 393207 E 01
A1	=	-.11648 73690 679239 E 01
A2	=	.11767 61394 826331 E 00
A11	=	.12957 73384 578811 E 01
A22	=	.13223 55441 694154 E-01
A111	=	.00000 00000 000000 E 00
ER	=	.26645 35259 100376 E-14

$N = 3$

U	=	0.52464 76232 752898 E 00
V	=	0.16506 80123 885785 E 01
A0	=	-0.16670 57615 995655 E 02
A1	=	0.10029 69816 550776 E 02
A2	=	0.16169 92466 877543 E 00
A11	=	-0.60471 91512 215348 E 01
A22	=	0.23430 13790 896446 E-01
A111	=	0.41719 45018 806470 E 01
ER	=	0.88817 84197 001253 E-15

U	=	0.16506 80123 885785 E 01
V	=	0.52464 76232 752898 E 00
A0	=	0.16670 57615 995655 E 02
A1	=	0.17890 31619 570737 E 00
A2	=	-0.66580 81909 658103 E 01
A11	=	0.14836 18231 430649 E-01
A22	=	0.22944 90063 205049 E 01
A111	=	0.43009 78817 329836 E-02
ER	=	0.53290 70518 200748 E-14

$N = 4$

U	=	0.52464 76232 752898 E 00
V	=	0.16506 80123 885785 E 01
A0	=	-0.16753 93296 515617 E 03
A1	=	0.68792 23296 035750 E 02
A2	=	0.20351 84096 590143 E 00
A11	=	-0.25507 52791 168847 E 02
A22	=	0.41543 02141 060835 E-01
A111	=	0.73945 80014 349609 E 01
ER	=	0.00000 00000 000000 E-33

U	=	0.16506 80123 885785 E 01
V	=	0.52464 76232 752898 E 00
A0	=	0.68843 28564 066768 E 02
A1	=	0.29499 78472 682861 E 00
A2	=	-0.19942 72721 183780 E 02
A11	=	0.11049 87554 085110 E-01
A22	=	0.40707 92145 709969 E 01
A111	=	0.76232 86467 439314 E-02
ER	=	0.35527 13678 800501 E-14

$N = 5$

U	=	0.52464 76232 752898 E 00
V	=	0.16506 80123 885785 E 01
A0	=	-0.82694 08469 644521 E 03
A1	=	0.26477 90976 603310 E 03
A2	=	0.21346 08123 753201 E 00
A11	=	-0.71424 01971 867800 E 02
A22	=	0.73633 08827 748307 E-01
A111	=	0.13106 55182 226293 E 02
ER	=	0.14210 85471 520200 E-13

U	=	0.16506 80123 885785 E 01
V	=	0.52464 76232 752898 E 00
A0	=	0.22050 23449 401207 E 03
A1	=	0.53774 69753 137692 E 00
A2	=	-0.49778 14607 397923 E 02
A11	=	-0.74384 52457 129256 E-02
A22	=	0.72152 91214 899559 E 01
A111	=	0.13511 92345 576872 E-01
ER	=	0.35527 13678 800501 E-14

N = 6

		Left			Right		

U   =   0.52464 76232 752898 E 00 | U   =   0.16506 80123 885785 E 01
V   =   0.16506 80123 885785 E 01 | V   =   0.52464 76232 752898 E 00
A0 = -0.30967 95786 308022 E 04 | A0 =   0.61629 36518 340271 E 03
A1 =   0.81542 33218 802367 E 03 | A1 =   0.10752 97367 661788 E 01
A2 =   0.11732 69371 690731 E 00 | A2 = -0.11380 70080 982687 E 03
A11 = -0.17305 72952 964477 E 03 | A11 = -0.61082 83522 705201 E-01
A22 =   0.13051 12508 714907 E 00 | A22 =   0.12788 77069 925347 E 02
A111 = 0.23230 75824 946264 E 02 | A111 = 0.23949 26076 231784 E-01
ER =   0.56843 41886 080790 E-13 | ER =   0.10658 14103 640150 E-13

N = 7

U   =   0.52464 76232 752898 E 00 | U   =   0.16506 80123 885785 E 01
V   =   0.16506 80123 885785 E 01 | V   =   0.52464 76232 752898 E 00
A0 = -0.99353 66496 617291 E 04 | A0 =   0.15818 72931 972881 E 04
A1 =   0.22234 74133 610618 E 04 | A1 =   0.22922 43811 083573 E 01
A2 = -0.25469 37567 870600 E 00 | A2 = -0.24705 26815 122904 E 03
A11 = -0.38908 69633 129119 E 03 | A11 = -0.19316 44254 514366 E 00
A22 =   0.23132 51691 936695 E 00 | A22 =   0.22667 50587 423942 E 02
A111 = 0.41175 44691 871513 E 02 | A111 = 0.42448 05946 451061 E-01
ER =   0.15631 94018 672220 E-12 | ER =   0.42632 56414 560601 E-13

N = 8

U   =   0.52464 76232 752898 E 00 | U   =   0.16506 80123 885785 E 01
V   =   0.16506 80123 885785 E 01 | V   =   0.52464 76232 752898 E 00
A0 = -0.28831 85365 096607 E 05 | A0 =   0.38301 86952 240701 E 04
A1 =   0.56122 08981 244478 E 04 | A1 =   0.50486 01716 347332 E 01
A2 = -0.12714 59303 916215 E 01 | A2 = -0.51824 36928 774311 E 03
A11 = -0.▒▒▒▒ ▒▒▒▒▒ ▒▒▒▒▒ E 03 | A11 = -0.▒▒▒▒ ▒▒▒▒ ▒▒▒▒▒ E 00
A22 =   0.41001 31869 456696 E 00 | A22 =   0.40177 10807 721908 E 02
A111 = 0.72981 57943 383227 E 02 | A111 = 0.75230 ▒▒▒▒▒ ▒▒▒▒▒ E-01
ER =   0.48316 90603 168682 E-12 | ER =   0.28421 70943 040401 E-13

N = 9

U   =   0.52464 76232 752898 E 00 | U   =   0.16506 80123 885785 E 01
V   =   0.16506 80123 885785 E 01 | V   =   0.52464 76232 752898 E 00
A0 = -0.77949 59343 747715 E 05 | A0 =   0.88883 46030 907455 E 04
A1 =   0.13426 93876 438101 E 05 | A1 =   0.11228 96014 734418 E 02
A2 = -0.37070 61843 754380 E 01 | A2 = -0.10609 87169 007526 E 04
A11 = -0.17397 78671 743853 E 04 | A11 = -0.11402 73296 758077 E 01
A22 =   0.72672 94521 292477 E 00 | A22 =   0.71212 06992 971403 E 02
A111 = 0.12935 64815 481119 E 03 | A111 = 0.13335 73392 062375 E 00
ER =   0.15916 15728 102625 E-11 | ER =   0.28421 70943 040401 E-12

N = 10

U   =   0.52464 76232 752898 E 00 | U   =   0.16506 80123 885785 E 01
V   =   0.16506 80123 885785 E 01 | V   =   0.52464 76232 752898 E 00
A0 = -0.19990 99589 093293 E 06 | A0 =   0.19970 38425 558291 E 05
A1 =   0.30883 09770 714918 E 05 | A1 =   0.24890 45616 436236 E 02
A2 = -0.91467 84872 493212 E 01 | A2 = -0.21329 91008 624481 E 04
A11 = -0.35422 34194 174754 E 04 | A11 = -0.24938 21254 768799 E 01
A22 =   0.12880 94415 992941 E 01 | A22 =   0.12622 01075 778746 E 03
A111 = 0.22927 83938 595393 E 03 | A111 = 0.23636 97294 226087 E 00
ER =   0.36379 78807 091713 E-11 | ER =   0.22737 36754 432321 E-12

N = 11

U	=	0.52464 76232 752898 E 00
V	=	0.16506 80123 885785 E 01
A0	=	-0.49213 22200 913889 E 06
A1	=	0.68921 30022 397937 E 05
A2	=	-0.20778 42988 656838 E 02
A11	=	-0.70912 17382 525778 E 04
A22	=	0.22830 87907 956578 E 01
A111	=	0.40638 53721 257717 E 03
ER	=	0.82991 39153 677970 E-11

U	=	0.16506 80123 885785 E 01
V	=	0.52464 76232 752898 E 00
A0	=	0.43743 45125 758804 E 05
A1	=	0.54633 36880 089931 E 02
A2	=	-0.42280 66758 659524 E 04
A11	=	-0.52580 31960 790172 E 01
A22	=	0.22371 93157 381121 E 03
A111	=	0.41895 44371 525975 E 00
ER	=	0.11368 68377 216160 E-12

N = 12

U	=	0.52464 76232 752898 E 00
V	=	0.16506 80123 885785 E 01
A0	=	-0.11725 49269 121797 E 07
A1	=	0.15017 87323 770434 E 06
A2	=	-0.44922 14397 704500 E 02
A11	=	-0.14009 45419 281794 E 05
A22	=	0.40466 67954 413458 E 01
A111	=	0.72029 93177 759949 E 03
ER	=	0.22737 36754 432321 E-12

U	=	0.16506 80123 885785 E 01
V	=	0.52464 76232 752898 E 00
A0	=	0.93870 59393 030152 E 05
A1	=	0.11844 48852 296714 E 03
A2	=	-0.82871 17533 675603 E 04
A11	=	-0.10804 88015 528803 E 02
A22	=	0.39653 21627 019639 E 03
A111	=	0.74257 74054 850741 E 00
ER	=	0.68212 10263 296962 E-12

N = 13

U	=	0.52464 76232 752898 E 00
V	=	0.16506 80123 885785 E 01
A0	=	-0.27200 09300 029365 E 07
A1	=	0.32095 38937 904752 E 06
A2	=	-0.93967 49148 131708 E 02
A11	=	-0.27384 50563 283795 E 05
A22	=	0.71725 32199 196076 E 01
A111	=	0.12706 97299 596679 E 04

U	=	0.16506 80123 885785 E 01
V	=	0.52464 76232 752898 E 00
A0	=	0.19806 26920 395412 E 06
A1	=	0.25350 51325 528083 E 03
A2	=	-0.16094 20300 300700 E 05
A11	=	-0.21783 51980 370775 E 02
A22	=	0.70283 49387 889684 E 03
A111	=	0.13161 84181 947447 E 01

N = 14

ER	=	0.90949 47017 729282 E-11
U	=	0.52464 76232 752898 E 00
V	=	0.16506 80123 885785 E 01
A0	=	-0.61707 13081 110959 E 07
A1	=	0.67500 30403 943150 E 06
A2	=	-0.19197 90067 701981 E 03
A11	=	-0.53063 54655 340277 E 05
A22	=	0.12712 98231 710255 E 02
A111	=	0.22628 87045 110807 E 04
ER	=	0.45474 73508 864641 E-11

ER	=	0.36379 78807 091713 E-11
U	=	0.16506 80123 885785 E 01
V	=	0.52464 76232 752898 E 00
A0	=	0.41202 06601 498525 E 06
A1	=	0.53587 82184 294298 E 03
A2	=	-0.31017 71768 025669 E 05
A11	=	-0.43276 03500 594574 E 02
A22	=	0.12457 42529 256562 E 04
A111	=	0.23329 75721 793678 E 01
ER	=	0.15461 40993 013978 E-10

N = 15

U	=	0.52464 76232 752898 E 00
V	=	0.16506 80123 885795 E 01
A0	=	-0.13737 65461 211358 E 08
A1	=	0.14005 60564 611494 E 07
A2	=	-0.38534 02787 717390 E 03
A11	=	-0.10207 44131 458246 E 06
A22	=	0.22533 17446 444214 E 02
A111	=	0.40103 62857 270852 E 04
ER	=	0.60936 14501 878616 E-10

U	=	0.16506 80123 885785 E 01
V	=	0.52464 76232 752898 E 00
A0	=	0.84683 50993 656602 E 06
A1	=	0.11197 68619 895160 E 04
A2	=	-0.59393 51543 510614 E 05
A11	=	-0.84974 60401 176475 E 02
A22	=	0.22080 21143 217569 E 04
A111	=	0.41349 14556 777190 E 01
ER	=	0.45474 73508 864641 E-11

N = 16

```
U    =  0.52464 76232 752898 E 00          U    =  0.16506 80123 885785 E 01
V    =  0.16506 80123 885785 E 01          V    =  0.52464 76232 752898 E 00
A0   = -0.30093 25230 139677 E 08          A0   =  0.17225 44563 345681 E 07
A1   =  0.28727 09616 757798 E 07          A1   =  0.23152 81111 593279 E 04
A2   = -0.76287 58847 232191 E 03          A2   = -0.11309 94963 081237 E 06
A11  = -0.19514 03252 928847 E 06          A11  = -0.16527 14545 684738 E 03
A22  =  0.39939 01185 262631 E 02          A22  =  0.39136 15578 176781 E 04
A111 =  0.71090 69316 823622 E 04          A111 =  0.73289 45229 325002 E 01
ER   =  0.14370 01628 801227 E-09          ER   =  0.41836 75628 155470 E-10
```

N = 17

```
U    =  0.52464 76232 752898 E 00          U    =  0.16506 80123 885785 E 01
V    =  0.16506 80123 885785 E 01          V    =  0.52464 76232 752898 E 00
A0   = -0.65003 71675 099753 E 08          A0   =  0.34723 21708 515761 E 07
A1   =  0.58339 01653 968153 E 07          A1   =  0.47415 61843 140774 E 04
A2   = -0.14937 42410 359740 E 04          A2   = -0.21433 70437 718146 E 06
A11  = -0.37107 82156 062450 E 06          A11  = -0.31891 64604 842327 E 03
A22  =  0.70790 05535 954852 E 02          A22  =  0.69367 03002 503251 E 04
A111 =  0.12600 49728 695828 E 05          A111 =  0.12990 21719 479271 E 02
ER   =  0.59662 85243 630409 E-09          ER   =  0.14551 91522 836685 E-10
```

N = 18

```
U    =  0.52464 76232 752898 E 00          U    =  0.16506 80123 885785 E 01
V    =  0.16506 80123 885785 E 01          V    =  0.52464 76232 752898 E 00
A0   = -0.13870 04803 643074 E 09          A0   =  0.69442 61310 474886 E 07
A1   =  0.11795 00067 661317 E 08          A1   =  0.95848 57007 100089 E 04
A2   = -0.28985 33699 958703 E 04          A2   = -0.40449 24905 238061 E 06
A11  = -0.70238 66121 176235 E 06          A11  = -0.61131 30294 844536 E 03
A22  =  0.12547 21062 278465 E 03          A22  =  0.12294 98594 937474 E 05
A111 =  0.22333 79993 959370 E 05          A111 =  0.23024 56049 100939 E 02
ER   =  0.10477 37896 442413 E-08          ER   =  0.00000 00000 000000 E-38
```

N = 19

```
U    =  0.52464 76232 752898 E 00          U    =  0.16506 80123 885785 E 01
V    =  0.16506 80123 885785 E 01          V    =  0.52464 76232 752898 E 00
A0   = -0.29276 07889 728418 E 09          A0   =  0.13790 65363 131652 E 08
A1   =  0.23465 87651 859430 E 08          A1   =  0.19303 39794 130959 E 05
A2   = -0.55823 04254 200731 E 04          A2   = -0.76052 88628 768789 E 06
A11  = -0.13241 19114 886933 E 07          A11  = -0.11651 45492 996911 E 04
A22  =  0.22239 35178 647723 E 03          A22  =  0.21792 29519 279844 E 05
A111 =  0.39585 62970 828623 E 05          A111 =  0.40809 97090 769658 E 02
ER   =  0.11641 53218 269348 E-08          ER   =  0.11641 53218 269348 E-09
```

N = 20

```
U    =  0.52464 76232 752898 E 00          U    =  0.16506 80123 885785 E 01
V    =  0.16506 80123 885785 E 01          V    =  0.52464 76232 752898 E 00
A0   = -0.61201 70584 387336 E 09          A0   =  0.27216 21796 642029 E 08
A1   =  0.46566 71805 600861 E 08          A1   =  0.38793 57125 543519 E 05
A2   = -0.10682 74116 659600 E 05          A2   = -0.14252 53986 800010 E 07
A11  = -0.24872 67427 876436 E 07          A11  = -0.22098 34196 108959 E 04
A22  =  0.39418 22471 558405 E 03          A22  =  0.38625 93753 454541 E 05
A111 =  0.70163 70181 697169 E 05          A111 =  0.72333 79009 068885 E 02
ER   =  0.10477 37896 442413 E-08          ER   =  0.81490 72527 885437 E-09
```

N = 1

```
U    =  .20201 82870 456086 E 01        U    =  .95857 24646 138190 E 00
V    =  .95857 24646 138190 E 00        V    =  .20201 82870 456086 E 01
A0   =  .94530 87204 829431 E 00        A0   =  .94530 87204 829431 E 00
A1   =  .19953 24205 904589 E-01        A1   =  .39361 93231 522406 E 00
A2   =  .39361 93231 522406 E 00        A2   =  .19953 24205 904589 E-01
A11  =  .00000 00000 000000 E 00        A11  =  .00000 00000 000000 E 00
A22  =  .00000 00000 000000 E 00        A22  =  .00000 00000 000000 E 00
A12  =  .00000 00000 000000 E 00        A12  =  .00000 00000 000000 E 00
A111 =  .00000 00000 000000 E 00        A111 =  .00000 00000 000000 E 00
A222 =  .00000 00000 000000 E 00        A222 =  .00000 00000 000000 E 00
A1111=  .00000 00000 000000 E 00        A1111=  .00000 00000 000000 E 00
ER   =  .20428 10365 310288 E-13        ER   =  .20428 10365 310288 E-13
```

N = 2

```
U    =  .20201 82870 456086 E 01        U    =  .95857 24646 138190 E 00
V    =  .95857 24646 138190 E 00        V    =  .20201 82870 456086 E 01
A0   =  .89360 51770 210983 E 00        A0   =  .89360 85770 210982 E 00
A1   =  .18861 97372 032306 E-01        A1   =  .37209 17787 264069 E 00
A2   =  .37209 17787 264069 E 00        A2   =  .18861 97372 032306 E-01
A11  =  .39813 18686 668781 E-03        A11  =  .15493 61715 588279 E 00
A22  =  .15493 61715 588279 E 00        A22  =  .39813 18686 668781 E-03
A12  =  .78539 81633 974483 E-02        A12  =  .78539 81633 974483 E-02
A111 =  .00000 00000 000000 E 00        A111 =  .00000 00000 000000 E 00
A222 =  .00000 00000 000000 E 00        A222 =  .00000 00000 000000 E 00
A1111=  .00000 00000 000000 E 00        A1111=  .00000 00000 000000 E 00
ER   =  .44408 92098 500626 E-13        ER   =  .44408 92098 500626 E-13
```

N = 3

```
U    =  .20201 82870 456086 E 01        U    =  .95857 24646 138190 E 00
V    =  .95857 24646 138190 E 00        V    =  .20201 82870 456086 E 01
A0   =  .67644 87344 299245 E 00        A0   =  .67644 87344 299251 E 00
A1   =  .51198 91062 915514 E-02        A1   =  .44859 57234 937438 E 00
A2   =  .44859 57234 937440 E 00        A2   =  .51198 91062 915514 E-02
A11  =  .23522 34545 956062 E-03        A11  =  .91539 07130 800051 E-01
A22  =  .91539 07130 800046 E-01        A22  =  .23522 34545 956066 E-03
A12  =  .13920 81999 207926 E-01        A12  =  .13920 81999 207926 E-01
A111 =  .23522 34545 956059 E-03        A111 =  .91539 07130 800082 E-01
A222 =  .91539 07130 800082 E-01        A222 =  .23522 34545 956059 E-03
A1111=  .00000 00000 000000 E 00        A1111=  .00000 00000 000000 E 00
ER   =  .70166 09515 630989 E-13        ER   =  .70610 18436 615996 E-13
```

N = 4

```
U    =  .20201 82870 456086 E 01        U    =  .95857 24646 138190 E 00
V    =  .95857 24646 138190 E 00        V    =  .20201 82870 456086 E 01
A0   = -.86045 29450 070482 E 00        A0   =  .26502 90887 668105 E-02
A1   = -.40551 19985 337953 E-01        A1   =  .63760 13428 363318 E 00
A2   =  .10702 64754 497147 E 01        A2   = -.39439 40593 892281 E-01
A11  =  .13897 42393 070920 E-03        A11  =  .54082 92648 272642 E-01
A22  = -.16224 87794 481812 E 00        A22  = -.41692 27179 212811 E-03
A12  =  .24674 01100 272339 E-01        A12  =  .24674 01100 272339 E-01
A111 =  .13897 42393 070935 E-03        A111 =  .54082 92648 272695 E-01
A222 =  .16224 87794 481807 E 00        A222 =  .41692 27179 212806 E-03
A1111=  .13897 42393 070936 E-03        A1111=  .54082 92648 272688 E-01
ER   =  .47861 63406 380076 E-13        ER   =  .79936 08777 301127 E-13
```

N = 5

U =	.20201 82870 456086 E 01	U = .95857 24646 138190 E 00
V =	.95857 24646 138190 E 00	V = .20201 82870 456086 E 01
A0 =	-.92734 70062 008256 E 01	A0 = -.62441 67910 552725 E 00
A1 =	-.16082 01745 309052 E 00	A1 = .46749 49155 831036 E 00
A2 =	.15343 98637 584672 E 01	A2 = -.15293 77609 105365 E 00
A11 =	.2769 095640 E-03	A11 = .28757 84739 376464 E 00
A22 =	54218 129428 E 00	A22 = -.22169 28830 728709 E-02
A12 =	54581 906214 E-01	A12 = .43733 54581 906214 E-01
A111 =	-.54256 365230 E-03	A111 = -.95859 49131 254901 E-01
A222 =	.28757 84739 376475 E 00	A222 = .73897 62769 095682 E-03
A1111=	.24632 54256 365228 E-03	A1111= .95859 49131 254916 E-01
ER =	.12789 76924 368180 E-12	ER = .19895 19660 128281 E-12

N = 6

U =	.20201 82870 456086 E 01	U = .95857 24646 138190 E 00
V =	.95857 24646 138190 E 00	V = .20201 82870 456086 E 01
A0 =	-.36184 04341 430975 E 02	A0 = .44887 38363 336495 E 01
A1 =	-.44793 65291 385167 E 00	A1 = -.23847 35661 407361 E 01
A2 =	-.11207 78630 041437 E 02	A2 = -.41300 84931 988849 E 00
A11 =	.39294 04043 208552 E-02	A11 = .15291 58720 704941 E 01
A22 =	-.25485 97867 841576 E 01	A22 = -.65490 06738 680931 E-02
A12 =	.77515 69170 074955 E-01	A12 = .77515 69170 074955 E-01
A111 =	-.13098 01347 736186 E-02	A111 = -.50971 95735 683143 E 00
A222 =	.50971 95735 683150 E 00	A222 = .13098 01347 736185 E-02
A1111=	.43660 04492 453953 E-03	A1111= .16990 65245 227716 E 00
ER =	.31263 88037 344441 E-12	ER = .25579 53848 736361 E-12

N = 7

U =	.20201 82870 456086 E 01	U = .95857 24646 138190 E 00
V =	.95857 24646 138190 E 00	V = .20201 82870 456086 E 01
A0 =	-.12641 59883 997367 E 03	A0 = .41795 47854 086308 E 02
A1 =	-.10981 39256 161750 E 01	A1 = -.15945 37587 897998 E 02
A2 =	.32238 85991 051738 E 02	A2 = -.97432 25925 502177 E 00
A11 =	.14703 22880 386949 E-01	A11 = .57218 78000 002812 E 01
A22 =	-.63241 80947 371544 E 01	A22 = -.16250 93709 901364 E-01
A12 =	.13739 29862 605983 E 00	A12 = .13739 29862 605983 E 00
A111 =	-.38692 70737 860395 E-02	A111 = -.15057 57368 421794 E 01
A222 =	.90345 44210 530776 E 00	A222 = .23215 62442 716236 E-02
A1111=	.77385 41475 720790 E-03	A1111= .30115 14736 843591 E 00
ER =	.68212 10263 296962 E-12	ER = .62527 76074 688882 E-12

N = 8

U =	.20201 82870 456086 E 01	U = .95857 24646 138190 E 00
V =	.95857 24646 138190 E 00	V = .20201 82870 456086 E 01
A0 =	-.38997 61758 188693 E 03	A0 = .80631 79468 717986 E 00
A1 =	-.25239 73579 002044 E 01	A1 = -.63978 77622 569303 E 02
A2 =	.85478 80876 086653 E 02	A2 = -.21399 19765 109109 E 01
A11 =	.45263 48520 881012 E-01	A11 = .17614 64394 484452 E 02
A22 =	-.14411 98140 941826 E 02	A22 = -.37033 76062 539008 E-01
A12 =	.24352 27275 850060 E 00	A12 = .24352 27275 850060 E 00
A111 =	-.96013 45347 323358 E-02	A111 = -.37364 39624 663991 E 01
A222 =	.16013 31267 713141 E 01	A222 = .41148 62291 710008 E-02
A1111=	.13716 20763 903337 E-02	A1111= .53377 70892 377133 E 00
ER =	.10231 81539 494544 E-11	ER = .98949 47017 729282 E-12

N = 9

U	=	.20201 82870 456086 E 01	U	=	.95857 24646 138190 E 00

Left column:

U   =   .20201 82870 456086 E 01
V   =   .95857 24646 138190 E 00
A0   = -.11062 17568 890353 E 04
A1   = -.55848 68901 774239 E 01
A2   =   .21308 62651 511703 E 03
A11   =   .12398 78597 530841 E 00
A22   = -.31221 14349 236924 E 02
A12   =   .43163 27962 910589 E 00
A111 = -.21880 21054 466191 E-01
A222 =   .28382 85772 033567 E 01
A1111=   .24311 34504 962435 E-02
ER   =   .20463 63078 989089 E-11

Right column:

U   =   .95857 24646 138190 E 00
V   =   .20201 82870 456086 E 01
A0   =   .79620 93027 541961 E 03
A1   = -.21076 44101 391756 E 03
A2   = -.44957 19743 551059 E 01
A11   =   .48250 85812 457062 E 02
A22   = -.80227 43866 376050 E-01
A12   =   .43163 27962 910588 E 00
A111 = -.85148 57316 100695 E 01
A222 =   .72934 03514 887317 E-02
A1111=   .94609 52573 445222 E 00
ER   =   .25011 10429 875553 E-11

N = 10

Left column:

U   =   .20201 82870 456086 E 01
V   =   .95857 24646 138190 E 00
A0   = -.29505 12236 013667 E 04
A1   = -.12058 14398 291708 E 02
A2   =   .50695 44670 302310 E 03
A11   =   .31456 23812 234655 E 00
A22   = -.65399 49710 594600 E 02
A12   =   .76504 92119 632034 E 00
A111 = -.47399 81086 928935 E-01
A222 =   .50307 30546 611231 E 01
A1111=   .43090 73715 389943 E-02
ER   =   .27284 84105 318785 E-11

Right column:

U   =   .95857 24646 138190 E 00
V   =   .20201 82870 456086 E 01
A0   =   .26694 27488 507165 E 04
A1   = -.61992 91754 106825 E 03
A2   = -.91624 46446 175044 E 01
A11   =   .12241 44433 008732 E 03
A22   = -.16805 38749 002081 E 00
A12   =   .76504 92119 632033 E 00
A111 = -.18446 01200 424117 E 02
A222 =   .12927 22114 616986 E-01
A1111=   .16769 10182 203743 E 01
ER   =   .54569 68210 637569 E-11

N = 11

Left column:

U   =   .20201 82870 456086 E 01
V   =   .95857 24646 138190 E 00
A0   = -.75051 40207 289134 E 04
A1   = -.25596 78417 258175 E 02
A2   =   .11633 43500 364008 E 04
A11   =   .75612 57957 671859 E 00
A22   = -.13375 10659 531364 E 03
A12   =   .13560 14421 876410 E 01
A111 = -.99289 24590 882232 E-01
A222 =   .89167 37730 209091 E 01
A1111=   .76376 34300 678642 E-02
ER   =   .36379 78807 091713 E-11

Right column:

U   =   .95857 24646 138190 E 00
V   =   .20201 82870 456086 E 01
A0   =   .81479 91488 771255 E 04
A1   = -.16900 12573 282900 E 04
A2   = -.18264 65524 393021 E 02
A11   =   .29425 23450 968997 E 03
A22   = -.34360 35435 305388 E 00
A12   =   .13560 14421 876410 E 01
A111 = -.38639 19683 090603 E 02
A222 =   .22912 90290 203594 E-01
A1111=   .29722 45910 069695 E 01
ER   =   .19099 38873 723149 E-10

N = 12

Left column:

U   =   .20201 82870 456086 E 01
V   =   .95857 24646 138190 E 00
A0   = -.18384 21511 696353 E 05
A1   = -.53668 70206 200224 E 02
A2   =   .25945 18929 546960 E 04
A11   =   .17463 18708 317924 E 01
A22   = -.26867 66041 662014 E 03
A12   =   .24034 72983 938260 E 01
A111 = -.20306 03149 206887 E 00
A222 =   .15804 50612 742361 E 02
A1111=   .13537 35432 804592 E-01
ER   =   .18913 93642 127314 E-10

Right column:

U   =   .95857 24646 138190 E 00
V   =   .20201 82870 456086 E 01
A0   =   .23232 46521 315642 E 05
A1   = -.43594 63766 520313 E 04
A2   = -.35799 39434 898153 E 02
A11   =   .67959 37634 792144 E 03
A22   = -.69040 50707 303407 E 00
A12   =   .24034 72983 938259 E 01
A111 = -.79022 53063 711798 E 02
A222 =   .40612 06298 413775 E-01
A1111=   .52681 68709 141201 E 01
ER   =   .68750 60870 888884 E-10

N = 13

U	=	.20201 82870 456086 E 01
V	=	.95857 24646 138190 E 00
A0	=	-.43671 49734 276667 E 05
A1	=	-.11146 75410 087546 E 03
A2	=	.56546 29772 423362 E 04
A11	=	.39110 76737 000239 E 01
A22	=	-.53224 23971 970242 E 03
A12	=	.42600 44945 928738 E 01
A111	=	-.40790 37087 668962 E 00
A222	=	.28012 75774 721180 E 02
A1111	=	.23994 33580 981744 E-01
ER	=	.14551 91522 336685 E-10

U	=	.95857 24646 138190 E 00
V	=	.20201 82870 456086 E 01
A0	=	.62875 99033 160290 E 05
A1	=	-.10779 52143 927419 E 05
A2	=	-.69237 50998 347567 E 02
A11	=	.15220 26504 265171 E 04
A22	=	-.13676 77141 159594 E 01
A12	=	.42600 44945 928738 E 01
A111	=	-.15873 89605 675333 E 03
A222	=	.71983 00742 945235 E-01
A1111	=	.93375 85915 737261 E 01
ER	=	.11641 53218 269348 E-09

N = 14

U	=	.20201 82870 456086 E 01
V	=	.95857 24646 138190 E 00
A0	=	-.10113 18239 730907 E 06
A1	=	-.22976 91373 190439 E 03
A2	=	.12092 82430 386609 E 05
A11	=	.85482 99434 112230 E 01
A22	=	-.10426 77727 214106 E 04
A12	=	.75507 33069 441976 E 01
A111	=	-.80804 82052 145894 E 00
A222	=	.49651 32034 352887 E 02
A1111	=	.42528 85290 603104 E-01
ER	=	.36379 78807 091713 E-10

U	=	.95857 24646 138190 E 00
V	=	.20201 82870 456086 E 01
A0	=	.16325 88827 927502 E 06
A1	=	-.25774 58267 813180 E 05
A2	=	-.13246 31218 700448 E 03
A11	=	.33266 38463 016428 E 04
A22	=	-.26793 17733 079946 E 01
A12	=	.75507 33069 441975 E 01
A111	=	-.31445 83621 756824 E 03
A222	=	.12758 65587 180929 E 00
A1111	=	.16550 44011 450962 E 02
ER	=	.24738 25588 822365 E-09

N = 15

U	=	.20201 82870 456086 E 01
V	=	.95857 24646 138190 E 00
A0	=	-.22922 10200 957437 E 06
A1	=	-.47065 67326 189958 E 03
A2	=	.25455 42135 538894 E 05
A11	=	.18317 44427 321702 E 02
A22	=	-.20241 07500 744918 E 04
A12	=	.13383 32590 609205 E 02
A111	=	-.15829 89011 265668 E 01
A222	=	.88004 67394 543123 E 02
A1111	=	.75380 42910 788896 E-01
ER	=	.58207 66091 346741 E-10

U	=	.95857 24646 138190 E 00
V	=	.20201 82870 456086 E 01
A0	=	.40980 66976 552749 E 06
A1	=	-.59967 78215 430937 E 05
A2	=	-.25114 89230 568240 E 03
A11	=	.71283 78589 579913 E 04
A22	=	-.52012 49608 444340 E 01
A12	=	.13383 32590 609205 E 02
A111	=	-.61603 27176 180174 E 03
A222	=	.22616 12873 236670 E 00
A1111	=	.29334 89131 514370 E 02
ER	=	.32014 21350 240707 E-09

N = 16

U	=	.20201 82870 456086 E 01
V	=	.95857 24646 138190 E 00
A0	=	-.51010 65647 876646 E 06
A1	=	-.95888 56090 777988 E 03
A2	=	.52870 32811 431447 E 05
A11	=	.38612 80790 614933 E 02
A22	=	-.38996 05580 806595 E 04
A12	=	.23721 32754 017642 E 02
A111	=	-.30729 91632 669323 E 01
A222	=	.15598 42232 322638 E 03
A1111	=	.13360 83318 551880 E 00
ER	=	.17462 29827 404022 E-09

U	=	.95857 24646 138190 E 00
V	=	.20201 82870 456086 E 01
A0	=	.10000 89620 763213 E 07
A1	=	-.13639 05294 074985 E 06
A2	=	-.47255 12811 249159 E 03
A11	=	.15026 48017 137472 E 05
A22	=	-.10020 62488 913910 E 02
A12	=	.23721 32754 017641 E 02
A111	=	-.11958 79044 780688 E 04
A222	=	.40082 49955 655643 E 00
A1111	=	.51994 74107 742123 E 02
ER	=	.58207 66091 346741 E-09

N = 17

		Left			Right

U = .20201 82870 456086 E 01   U = .95857 24646 138190 E 00
V = .95857 24646 138190 E 00   V = .20201 82870 456086 E 01
A0 = -.11173 63419 623545 E 07   A0 = .23830 05946 525854 E 07
A1 = -.19442 30707 448216 E 04   A1 = -.30431 33221 876257 E 06
A2 = .10855 57679 541811 E 06   A2 = -.88330 12891 003518 E 03
A11 = .80280 15018 301883 E 02   A11 = .31241 65659 778403 E 05
A22 = -.74648 20603 010351 E 04   A22 = -.19181 98278 709297 E 02
A12 = .42044 95834 717676 E 02   A12 = .42044 95834 717675 E 02
A111 = -.59203 65057 744752 E 01   A111 = -.23039 56976 237760 E 04
A222 = .27647 48371 485317 E 03   A222 = .71044 38069 293701 E 00
A1111= .23681 46023 097002 E 00   A1111= .92158 27904 951046 E 02
ER = .34924 59654 808044 E-09   ER = .36670 82637 548447 E-08

N = 18

U = .20201 82870 456086 E 01   U = .95857 24646 138190 E 00
V = .95857 24646 138190 E 00   V = .20201 82870 456086 E 01
A0 = -.24139 91646 765259 E 07   A0 = .55628 02417 464580 E 07
A1 = -.39250 22662 830890 E 04   A1 = -.66792 05544 129617 E 06
A2 = .22068 32990 591054 E 06   A2 = -.16416 20994 079199 E 04
A11 = .16495 89808 491558 E 03   A11 = .64195 09456 149305 E 05
A22 = -.14211 12780 368932 E 05   A22 = -.36517 63698 187420 E 02
A12 = .74522 74833 361544 E 02   A12 = .74522 74833 361543 E 02
A111 = -.11333 05975 299543 E 02   A111 = -.44103 50008 041506 E 04
A222 = .49003 88897 823902 E 03   A222 = .12592 28861 443939 E 01
A1111= .41974 29538 146458 E 00   A1111= .16334 62965 941299 E 03
ER = .11641 53218 269348 E-08   ER = .97788 87033 462524 E-08

N = 19

U = .20201 82870 456086 E 01   U = .95857 24646 138190 E 00
V = .95857 24646 138190 E 00   V = .20201 82870 456086 E 01
A0 = -.51523 80884 69495P E 07   A0 = .12756 58703 176511 E 08
A1 = -.78921 63261 575047 E 04   A1 = -.14452 72977 764062 E 07
A2 = .44473 82086 551886 E 06   A2 = -.30354 04364 443447 E 04
A11 = .33553 27317 105305 E 03   A11 = .13057 52213 656683 E 06
A22 = -.26925 71083 593607 E 05   A22 = -.69189 67638 376801 E 02
A12 = .13208 81322 639793 E 03   A12 = .13208 81322 639793 E 03
A111 = -.21575 27543 149752 E 02   A111 = -.83961 89400 453176 E 04
A222 = .86857 13172 882610 E 03   A222 = .22319 25044 637677 E 01
A1111= .74397 50148 792250 E 00   A1111= .28952 37724 294202 E 03
ER = .23283 06436 538696 E-08   ER = .13969 83861 923218 E-07

N = 20

U = .20201 82870 456086 E 01   U = .95857 24646 138190 E 00
V = .95857 24646 138190 E 00   V = .20201 82870 456086 E 01
A0 = -.10879 57173 717659 E 08   A0 = .28798 95219 941474 E 08
A1 = -.15809 68197 831693 E 05   A1 = -.30886 57776 315846 E 07
A2 = .88941 68803 618324 E 06   A2 = -.55874 18959 780430 E 04
A11 = .67647 32879 913876 E 03   A11 = .26325 49405 154347 E 06
A22 = -.50803 58501 175066 E 05   A22 = -.13054 74766 290173 E 03
A12 = .23412 01186 902073 E 03   A12 = .23412 01186 902073 E 03
A111 = -.40878 50278 310529 E 02   A111 = -.15908 19328 650775 E 05
A222 = .15395 02576 113657 E 04   A222 = .39559 84140 300522 E 01
A1111= .13186 61380 100171 E 01   A1111= .51316 75253 712180 E 03
ER = .45198 58022 300300 E-08   ER = .18878 85078 738096 E-07

N = 1

U	.23506 04973 674492 E 01	U	.23506 04973 674492 E 01
V	.43607 74119 276170 E 00	V	.13358 49074 013697 E 01
W	.13358 49074 013697 E 01	W	.43607 74119 276170 E 00
A0	.37747 58283 725532 E-14	A0	.37747 58283 725532 E-14
A1	.45300 09905 508850 E-02	A1	.45300 09905 508850 E-02
A2	.72462 95952 243906 E 00	A2	.15706 73203 228568 E 00
A3	.15706 73203 228568 E 00	A3	.72462 95952 243906 E 00
A11	.00000 00000 000000 E 00	A11	.00000 00000 000000 E 00
A22	.00000 00000 000000 E 00	A22	.00000 00000 000000 E 00
A33	.00000 00000 000000 E 00	A33	.00000 00000 000000 E 00
A12	.00000 00000 000000 E 00	A12	.00000 00000 000000 E 00
A13	.00000 00000 000000 E 00	A13	.00000 00000 000000 E 00
A111	.00000 00000 000000 E 00	A111	.00000 00000 000000 E 00
A222	.00000 00000 000000 E 00	A222	.00000 00000 000000 E 00
A333	.00000 00000 000000 E 00	A333	.00000 00000 000000 E 00
A112	.00000 00000 000000 E 00	A112	.00000 00000 000000 E 00
A1111	.00000 00000 000000 E 00	A1111	.00000 00000 000000 E 00
A2222	.00000 00000 000000 E 00	A2222	.00000 00000 000000 E 00
A11111	.00000 00000 000000 E 00	A11111	.00000 00000 000000 E 00
ER	.42632 56414 560601 E-13	ER	.42632 56414 560601 E-13

N = 2

U	.23506 04973 674492 E 01	U	.23506 04973 674492 E 01
V	.43607 74119 276170 E 00	V	.13358 49074 013697 E 01
W	.13358 49074 013697 E 01	W	.43607 74119 276170 E 00
A0	.22293 42762 337018 E 01	A0	.22293 42762 337019 E 01
A1	-.18952 62267 913932 E-01	A1	-.18952 62267 913931 E-01
A2	-.12920 93178 274090 E 01	A2	.19637 44197 847247 E 00
A3	.19637 44197 847248 E 00	A3	-.12920 93178 274091 E 01
A11	.18164 55653 302575 E-03	A11	.18164 55653 302580 E-03
A22	.12739 65616 142193 E 01	A22	.41968 02722 403721 E-01
A33	.41968 02722 403723 E-01	A33	.12739 65616 142194 E 01
A12	.14267 23126 263984 E-01	A12	-.95794 87375 707824 E-03
A13	-.95794 87375 707824 E-03	A13	.14267 23126 263983 E-01
A111	.00000 00000 000000 E 00	A111	.00000 00000 000000 E 00
A222	.00000 00000 000000 E 00	A222	.00000 00000 000000 E 00
A333	.00000 00000 000000 E 00	A333	.00000 00000 000000 E 00
A112	.00000 00000 000000 E 00	A112	.00000 00000 000000 E 00
A1111	.00000 00000 000000 E 00	A1111	.00000 00000 000000 E 00
A2222	.00000 00000 000000 E 00	A2222	.00000 00000 000000 E 00
A11111	.00000 00000 000000 E 00	A11111	.00000 00000 000000 E 00
ER	.28421 70943 040401 E-13	ER	.56843 41886 080801 E-13

N = 3

U	.23506 04973 674492 E 01	
V	.43607 74119 276170 E 00	
W	.13358 49074 013697 E 01	
A0	-.88159 10299 578581 E 01	
A1	-.75199 01433 606503 E-01	
A2	.62174 31894 715154 E 01	
A3	.24142 64514 564936 E 00	
A11	-.12070 97392 760651 E-02	
A22	-.42775 12212 101377 E 01	
A33	.55016 99248 401626 E 00	
A12	.23708 49996 347073 E-01	
A13	-.16979 19928 877412 E-02	
A111	-.25226 62761 233504 E-04	
A222	.32677 78737 176913 E 01	
A333	.96846 99492 068025 E-02	
A112	.78975 45148 774222 E-03	
A1111	.00000 00000 000000 E 00	
A2222	.00000 00000 000000 E 00	
A11111	.00000 00000 000000 E 00	
ER	.65369 93168 992922 E-12	

U	.23506 04973 674492 E 01
V	.13358 49074 013697 E 01
W	.43607 74119 276170 E 00
A0	-.14121 40370 328999 E 02
A1	-.80373 02747 072818 E-01
A2	.23554 65455 959062 E 00
A3	.88812 31915 566108 E 01
A11	.14246 71311 555331 E-03
A22	.58299 31240 064939 E-01
A33	-.56109 91731 556609 E 01
A12	-.20402 86915 216859 E-02
A13	.25288 00899 322557 E-01
A111	-.81437 86786 272828 E-04
A222	.80435 39533 751456 E-02
A333	.39345 18496 904530 E 01
A112	.17118 34931 697238 E-03
A1111	.00000 00000 000000 E 00
A2222	.00000 00000 000000 E 00
A11111	.00000 00000 000000 E 00
ER	.36948 22225 952521 E-12

N = 4

U	.23506 04973 674492 E 01
V	.43607 74119 276170 E 00
W	.13358 49074 013697 E 01
A0	.24150 27361 473396 E 03
A1	-.19609 59385 314785 E 00
A2	-.12867 57370 992803 E 03
A3	.30756 87842 786965 E 00
A11	-.48090 84223 194596 E-02
A22	.69808 70193 670851 E 02
A33	.63183 71437 437709 E-01
A12	.39222 61519 711794 E-01
A13	-.30094 84716 467989 E-02
A111	-.65023 53067 551697 E-04
A222	-.38695 19746 467150 E 02
A333	.17165 68290 957867 E-01
A112	.13998 03431 164504 E-02
A1111	.10155 24870 933717 E-04
A2222	.22243 59223 564394 E 02
A11111	.00000 00000 000000 E 00
ER	.25011 10429 875553 E-11

U	.23506 04973 674492 E 01
V	.13358 49074 013697 E 01
W	.43607 74119 276170 E 00
A0	-.15194 44647 365842 E 03
A1	-.22349 84386 890389 E 00
A2	.24357 49190 680104 E 00
A3	.63437 38770 086929 E 02
A11	-.78206 51878 140182 E-04
A22	.91183 37545 366160 E-01
A33	-.23892 72882 459136 E 02
A12	-.42231 44083 188527 E-02
A13	.44821 82892 177596 E-01
A111	-.13805 33746 673914 E-03
A222	.60747 32658 006551 E-02
A333	.69737 52461 297417 E 01
A112	.30341 48416 801350 E-03
A1111	-.31457 43917 717925 E-05
A2222	.40910 34981 750995 E-02
A11111	.00000 00000 000000 E 00
ER	.13642 42052 650392 E-11

N = 5

U	.23506 04973 674492 E 01	
V	.43607 74119 276170 E 00	
W	.13358 49074 013697 E 01	
A0	.25588 52693 117628 E 04	
A1	-.43959 86774 915262 E 00	
A2	-.10654 14061 446104 E 04	
A3	.45354 09090 542636 E 00	
A11	-.13210 09056 237780 E-01	
A22	.41860 65689 542026 E 03	
A33	.51139 45630 436795 E-01	
A12	.64558 10138 456042 E-01	
A13	-.53341 72774 944995 E-02	
A111	-.13798 16262 544961 E-03	
A222	-.14743 69331 898845 E 03	
A333	.30425 38077 650570 E-01	
A112	.24810 86982 078280 E-02	
A1111	.11365 20945 460154 E-04	
A2222	.39425 74071 603913 E 02	
A11111	.33172 50113 583196 E-05	
ER	.27284 84105 318785 E-11	

U	.23506 04973 674492 E 01	
V	.13358 49074 013697 E 01	
W	.43607 74119 276170 E 00	
A0	-.76130 53475 481915 E 03	
A1	-.53636 08050 192968 E 00	
A2	.11066 98320 787364 E 00	
A3	.24642 10889 239683 E 03	
A11	-.77364 93279 686072 E-03	
A22	.16908 86412 059705 E 00	
A33	-.67070 06802 436510 E 02	
A12	-.85609 05602 292053 E-02	
A13	.79444 62327 703017 E-01	
A111	-.22027 28632 635439 E-03	
A222	-.37351 58122 282251 E-02	
A333	.12360 65440 528844 E 02	
A112	.53778 88045 578431 E-03	
A1111	-.12210 18614 808813 E-04	
A2222	.72511 70707 593726 E-02	
A11111	.33172 50113 583196 E-05	
ER	.63664 62912 410498 E-11	

N = 6

U	.23506 04973 674492 E 01	
V	.43607 74119 276170 E 00	
W	.13358 49074 013697 E 01	
A0	.14489 29668 682848 E 05	
A1	-.90814 76242 193738 E 00	
A2	-.49768 73256 043596 E 04	
A3	.85721 51617 196804 E 00	
A11	-.31686 92825 496082 E-01	
A22	.15441 32368 981226 E 04	
A33	-.17212 84038 527893 E-01	
A12	.10563 10310 545804 E 00	
A13	-.94545 75076 346595 E-02	
A111	-.26133 59923 843507 E-0~	
A222	-.40108 57719 120020 ~ 03	
A333	.53927 58332 258420 E-01	
A112	.43976 12175 916192 E-02	
A1111	.83849 63787 681701 E-05	
A2222	.69880 30595 694596 E 02	
A11111	.58796 72738 237297 E-05	
ER	.40927 26157 978177 E-11	

U	.23506 04973 674492 E 01	
V	.13358 49074 013697 E 01	
W	.43607 74119 276170 E 00	
A0	-.28697 56752 981845 E 04	
A1	-.11928 77332 130782 E 01	
A2	-.49838 65180 425939 E 00	
A3	.76188 03428 527203 E 03	
A11	-.26304 27784 090070 E-02	
A22	.36435 20658 220550 E 00	
A33	-.16269 59793 510123 E 03	
A12	-.17080 22177 724598 E-01	
A13	.14081 19284 611100 E 00	
A111	-.32362 08108 715992 E-03	
A222	-.32325 12628 607575 E-01	
A333	.21908 68950 036573 E 02	
A112	.95320 58376 124227 E-03	
A1111	-.39981 33693 498689 E-04	
A2222	.12852 36544 424770 E-01	
A11111	.58796 72788 237297 E-05	
ER	.11365 68377 216160 E-10	

N = 7

U	.23506 04973 674492 E 01	U	.23506 04973 674492 E 01
V	.43607 74119 276170 E 00	V	.13358 49074 013697 F 01
W	.13358 49074 013697 E 01	W	.43607 74119 276170 E 00
A0	.61941 03102 175942 E 05	A0	-.92403 48506 778393 E 04
A1	-.17777 07991 112746 E 01	A1	-.25317 50820 409677 E 01
A2	-.18129 92919 259954 E 05	A2	-.25190 76659 556490 E 05
A3	.19962 44451 822657 E 01	A3	.20819 69376 876770 E 04
A11	-.70850 08180 622698 E-01	A11	-.72143 13567 476204 E-02
A22	.46541 53875 229692 E 04	A22	.85150 77097 848139 E 00
A33	-.22167 72706 861967 E 00	A33	-.36603 53972 739794 E 03
A12	.17163 69984 961825 E 00	A12	-.33652 93157 856341 E-01
A13	-.16757 79800 274585 E-01	A13	.24958 26448 543265 F 00
A111	-.05124 41144 444052 E-03	A111	-.41351 25015 633135 E-03
A222	-.95862 52557 605287 E 03	A222	-.10285 52438 165661 E 00
A333	.95584 15273 014240 E-01	A333	.38832 14107 321652 E 02
A112	.77945 64635 314398 E-02	A112	.16895 13357 581757 E-02
A1111	-.59809 35818 726028 E-02	A1111	-.80045 22544 960905 E-04
A2222	.12385 96173 956446 E 03	A2222	.22780 22462 490196 E-01
A11111	.10421 44858 695288 E-04	A11111	.10421 44858 695288 E-04
ER	.54569 68210 637569 E-11	ER	.10913 93642 127514 E-10

N = 8

U	.23506 04973 674492 E 01	U	.23506 04973 674492 E 01
V	.43607 74119 276170 E 00	V	.13358 49074 013697 E 01
W	.13358 49074 013697 E 01	W	.43607 74119 276170 E 00
A0	.22415 68221 205210 E 06	A0	-.26875 24137 808744 F 05
A1	-.33410 75681 229639 F 01	A1	-.52049 32814 397923 E 01
A2	-.57186 32165 826782 E 05	A2	-.84044 28357 197364 E 01
A3	.50611 55475 727270 E 01	A3	.52621 84302 941111 F 04
A11	-.15180 00698 318248 E 00	A11	-.18025 62129 214905 E-01
A22	.12525 65283 445355 E 05	A22	.20363 78052 704427 E 01
A33	-.73174 97312 701295 E 00	A33	-.78643 72054 342524 E 03
A12	.27658 76467 326608 E 00	A12	-.65637 43708 428875 E-01
A13	-.29702 42360 266367 E-01	A13	.44237 37199 912348 E 00
A111	-.70472 13561 777617 E-03	A111	-.37529 27428 841152 E-03
A222	-.21381 89937 797930 E 04	A222	-.26305 99667 102985 E 00
A333	.16941 84995 920819 E 00	A333	.68828 17798 412881 E 02
A112	.13815 50610 400118 E-01	A112	.85996 84465 602092 E-02
A1111	-.47544 00608 383659 E-04	A1111	-.17881 95414 546767 E-03
A2222	.21953 54556 249486 E 03	A2222	.40376 89606 090013 E-01
A11111	.18471 53667 995847 E-04	A11111	.18471 53667 995847 E-04
ER	.23646 86224 609613 E-10	ER	.56388 67150 992155 E-10

N = 9

U	.23506 04973 674492 E 01
V	.43607 74119 276170 E 00
W	.13358 49074 013697 E 01
A0	.72536 51850 249686 E 06
A1	-.60668 70122 36016P E 01
A2	-.16403 55854 432422 E 06
A3	.12871 08800 941997 E 02
A11	-.31613 41379 708568 E 00
A22	.31337 29343 631642 E 05
A33	-.18975 65573 122062 E 01
A12	.44126 41455 685876 E 00
A13	-.52646 17509 576797 E-01
A111	-.94958 71829 489494 E-03
A222	-.45680 75917 391823 E 04
A333	.30028 64720 166204 E 00
A112	.24487 34699 780530 E-01
A1111	-.14974 94493 118412 E-03
A2222	.38911 64640 872277 E 03
A11111	.32739 94632 053437 E-04
ER	.82764 01786 133647 E-10

U	.23506 04973 674492 E 01
V	.13358 49074 013697 E 01
W	.43607 74119 276170 F 00
A0	-.72768 10032 345432 E 05
A1	-.10454 06137 230973 E 02
A2	-.24295 35512 893526 E 02
A3	.12601 23704 092521 F 05
A11	-.42764 44635 423001 E-01
A22	.48264 01714 908890 F 01
A33	-.16379 13191 504874 E 04
A12	-.12695 48536 282573 F 00
A13	.78408 70035 378615 E 00
A111	.99669 48767 729967 E-04
A222	-.60939 40236 721798 E 00
A333	.12199 47691 187795 F 03
A112	.53077 62752 320669 E-02
A1111	-.38242 92775 095701 E-03
A2222	.71566 18632 871727 E-01
A11111	.32739 94632 053487 E-04
ER	.91858 96487 906575 E-10

N = 10

U	.23506 04973 674492 E 01
V	.43607 74119 276170 E 00
W	.13358 49074 013697 E 01
A0	.21651 12040 201145 E 07
A1	-.10666 65479 277584 E 02
A2	-.43973 90513 964407 E 06
A3	.31855 70580 886455 E 02
A11	-.64529 82926 040916 E 00
A22	.74496 07783 106352 E 05
A33	-.44278 35234 827394 E 01
A12	.69531 49491 101376 E 00
A13	-.93312 91578 394019 E-01
A111	-.92013 13072 437918 E-03
A222	-.94760 85701 454171 E 04
A333	.53224 39137 606899 E 00
A112	.43402 69248 471963 E-01
A1111	-.38148 40759 722971 E-03
A2222	.68969 09752 221446 E 03
A11111	.58030 04393 427191 E-04
ER	.73487 17190 325260 E-09

U	.23506 04973 674492 E 01
V	.13358 49074 013697 F 01
W	.43607 74119 276170 E 00
A0	-.18681 38177 264222 E 06
A1	-.20624 89819 985314 E 02
A2	-.65019 14330 841343 E 02
A3	.29003 50308 402658 E 05
A11	-.98142 44915 094497 E-01
A22	.11222 21092 377219 E 01
A33	-.33355 85740 361580 F 04
A12	-.24383 71482 646382 E 00
A13	.13897 58028 865651 E 01
A111	.17644 56234 230195 E-02
A222	-.13338 18309 082474 E 01
A333	.28683 00983 149161 E 03
A112	.94077 64530 043630 E-02
A1111	-.79369 89334 693953 E-03
A2222	.12684 77625 529566 C 00
A11111	.58030 04393 427191 E-04
FR	.12369 12794 011182 E-09

N = 11

U	.23506 04973 674492 E 01	U	.23506 04973 674492 E 01
V	.43607 74119 276170 E 00	V	.13358 49074 013697 E 01
W	.13358 49074 013697 E 01	W	.43607 74119 276170 E 00
A0	.60783 73548 007424 E 07	A0	-.46022 75863 307617 E 06
A1	-.18136 70653 384946 E 02	A1	-.40112 14689 909203 E 02
A2	-.11204 64313 981402 E 07	A2	-.16534 92334 109449 E 03
A3	.76263 33243 220334 E 02	A3	.64759 81922 991134 E 05
A11	-.12978 85698 296349 E 01	A11	-.22000 88906 008971 E 00
A22	.17052 24909 150010 E 06	A22	.25518 44098 505993 E 02
A33	-.97348 89162 064576 E 01	A33	-.66786 87531 409294 E 04
A12	.10785 55120 274018 E 01	A12	-.46553 97493 748540 E 00
A13	-.16539 28369 204671 E 00	A13	.24632 81970 089784 E 01
A111	.13285 78595 275378 E-03	A111	.63531 35863 315094 E-02
A222	-.19240 91544 298769 E 05	A222	-.28137 95008 772989 E 01
A333	.94337 77744 598104 E 00	A333	.38325 78704 399411 E 03
A112	.76929 26943 420920 E-01	A112	.16674 82846 968816 E-01
A1111	-.88187 40691 952632 E-03	A1111	-.16128 59308 099783 E-02
A2222	.12224 45424 967271 E 04	A2222	.22483 18052 157365 E 00
A11111	.10285 55748 395165 E-03	A11111	.10285 55748 395165 E-03
ER	.15061 23226 135969 E-08	FP	.26921 04317 247868 E-09

N = 12

U	.23506 04973 674492 E 01	U	.23506 04973 674492 E 01
V	.43607 74119 276170 E 00	V	.13358 49074 013697 E 01
W	.13358 49074 013697 E 01	W	.43607 74119 276170 E 00
A0	.16261 75946 290751 E 08	A0	-.10971 03402 742505 E 07
A1	-.29675 47420 854487 E 02	A1	-.77091 55768 340307 E 02
A2	-.27442 08711 973151 E 07	A2	-.40490 32057 783764 E 03
A3	.17695 71974 374445 E 03	A3	.14116 76172 922605 E 06
A11	-.25813 31410 979586 E 01	A11	-.48448 09423 442364 E 00
A22	.37911 70729 452863 E 06	A22	.56798 91858 683409 E 02
A33	-.20598 82892 184032 E 02	A33	-.13196 27921 074330 E 05
A12	.16389 82016 631515 E 01	A12	-.88425 84493 976231 F 00
A13	-.29315 11707 118692 E 00	A13	.43660 53613 751756 E 01
A111	.40908 73643 505981 E-02	A111	.17707 30454 832498 E-01
A222	-.30436 91362 899578 E 05	A222	-.57093 89796 899746 E 01
A333	.16720 93569 199967 E 01	A333	.67930 68883 511209 E 03
A112	.13635 35798 560121 E 00	A112	.29888 36863 488771 E-01
A1111	-.19276 94609 381665 E-02	A1111	-.32233 32211 033071 F-02
A2222	.21667 28101 005069 E 04	A2222	.39850 39989 606709 E 00
A11111	.18230 67597 114016 E-03	A11111	.18230 67597 114016 E-03
ER	.19244 90788 951516 E-08	ER	.64392 22488 552332 E-09

N = 13

U	.23506 04973 674492 E 01		U	.23506 04973 674492 E 01
V	.43607 74119 276170 E 00		V	.13358 49074 013697 E 01
W	.13358 49074 013697 E 01		W	.43607 74119 276170 E 00
A0	.41844 82590 540686 E 08		A0	-.25459 33861 978777 E 07
A1	-.46223 72202 617379 E 02		A1	-.14667 09291 432836 E 03
A2	-.65111 57201 158268 E 07		A2	-.96233 54836 907583 E 03
A3	.39956 34419 229061 E 03		A3	.30179 33618 859728 E 06
A11	-.50894 05466 222681 E 01		A11	-.10516 99782 367677 E 01
A22	.82358 45293 073671 E 06		A22	.12400 36970 135134 E 03
A33	-.42437 89101 826451 E 02		A33	-.25797 87612 511557 E 05
A12	.24216 59131 542338 E 01		A12	-.16720 78331 071042 E 01
A13	-.51959 69214 257126 E 00		A13	.77386 28540 954244 E 01
A111	.15376 90548 372300 E-01		A111	.44104 31658 940838 F-01
A222	-.75808 50671 073366 E 05		A222	-.11665 11751 850520 E 02
A333	.29637 08685 802831 E 01		A333	.12040 40110 204589 E 04
A112	.24168 04277 005414 E 00		A112	.52385 51862 024224 E-01
A1111	-.40630 10370 361496 E-02		A1111	-.63504 68226 786516 E-02
A2222	.38404 25566 491630 E 04		A2222	.70632 99475 590888 E 00
A11111	.32313 03182 965802 E-03		A11111	.32313 03182 965802 F-03
ER	.29016 51896 536350 E-07		ER	.10768 41726 899147 E-08

N = 14

U	.23506 04973 674492 E 01		U	.23506 04973 674492 E 01
V	.43607 74119 276170 E 00		V	.13358 49074 013697 E 01
W	.13358 49074 013697 E 01		W	.43607 74119 276170 E 00
A0	.10427 07694 766074 E 09		A0	-.57772 83475 138768 E 08
A1	-.67027 84206 785219 E 02		A1	-.27658 97976 542122 E 03
A2	-.15052 18780 244565 E 08		A2	-.22316 97155 268511 E 04
A3	.88150 02386 575806 E 03		A3	.63487 48856 147932 E 06
A11	-.99653 68699 762812 E 01		A11	-.22558 06213 644436 E 01
A22	.17557 27638 156499 E 07		A22	.26615 03441 742465 E 03
A33	-.85725 27710 585791 E 02		A33	-.49993 75594 309810 E 05
A12	.34355 44243 750092 E 01		A12	-.31493 83505 342799 E 01
A13	-.92096 15642 996569 E 00		A13	.13716 36195 814170 E 02
A111	.48908 70648 210398 E-01		A111	.10308 78678 880473 E 00
A222	-.14798 10338 197247 E 06		A222	-.23179 75693 806194 E 02
A333	.52530 36873 113396 E 01		A333	.21391 08869 970681 E 04
A112	.42836 74047 663169 E 00		A112	.92850 91421 013097 E-01
A1111	-.83469 65531 234480 E-02		A1111	-.12417 33110 229723 E-01
A2222	.68069 77084 444090 E 04		A2222	.12519 37235 560998 E 01
A11111	.57273 35770 090989 E-03		A11111	.57273 35770 090989 E-03
ER	.42899 04609 32254P E-07		FR	.17462 29827 404022 F-08

N = 15

U	.23506 04973 674492 E 01	U	.23506 04973 674492 E 01
V	.43607 74119 276170 E 00	V	.13358 49074 013697 F 01
W	.13358 49074 013697 E 01	W	.43607 74119 276170 E 00
A0	.25290 92618 858266 E 09	A0	-.12863 97770 992631 E 08
A1	-.85871 12841 990603 E 02	A1	-.51746 57789 408420 F 03
A2	-.34048 88843 841234 E 08	A2	-.50693 28257 713438 E 04
A3	.19068 14473 116011 C 04	A3	.13175 91477 358533 E 07
A11	-.19404 77302 662070 E 02	A11	-.47887 70246 466923 E 01
A22	.36847 85530 886624 E 07	A22	.56278 53052 443640 E 03
A33	-.17056 56283 956091 E 03	A33	-.96176 83237 226759 E 05
A12	.45708 20712 430194 E 01	A12	-.59112 84842 926839 E 01
A13	-.16323 61871 178890 E 01	A13	.24311 61857 312215 E 02
A111	.11154 69934 359081 E 00	A111	.23065 49576 462767 E 00
A222	-.28641 96587 474475 E 06	A222	-.45523 05139 644593 E 02
A333	.93107 65434 698407 E 01	A333	.37826 03564 846187 E 04
A112	.75926 14561 804600 E 00	A112	.16457 39604 518443 E 00
A1111	-.16824 89886 743749 E-01	A1111	-.24039 43399 846090 E-01
A2222	.12065 05274 634853 C 05	A2222	.22190 00974 262097 E 01
A11111	.10151 43834 112668 E-02	A11111	.10151 43834 112668 E-02
ER	.33673 13183 844090 E-07	FR	.62573 23548 197746 E-08

N = 16

U	.23506 04973 674492 C 01	U	.23506 04973 674492 C 01
V	.43607 74119 276170 E 00	V	.13358 49074 013697 E 01
W	.13358 49074 013697 C 01	W	.43607 74119 276170 C 00
A0	.59949 01655 400927 E 09	A0	-.28182 33982 536062 E 08
A1	-.82006 79396 163582 C 02	A1	-.96109 73907 228622 E 03
A2	-.75614 05936 189338 E 08	A2	-.11312 26524 233437 E 05
A3	.40561 78245 969329 F 04	A3	.27030 39860 352573 E 07
A11	-.37614 68004 912157 C 02	A11	-.10073 75381 443713 E 02
A22	.76319 82555 031422 C 07	A22	.11746 18304 306586 C 04
A33	-.33532 55089 811537 E 03	A33	-.18387 79774 160406 E 06
A12	.54100 56989 843284 E 01	A12	-.11060 87908 356839 E 02
A13	-.20932 86004 642376 E 01	A13	.49091 22190 307930 E 02
A111	.26455 17940 417620 E 00	A111	.50124 00250 308976 C 00
A222	-.55043 51255 252444 E 06	A222	-.88553 66139 658825 E 02
A333	.16502 90204 960917 C 02	A333	.67044 90254 960547 C 04
A112	.13457 55891 851187 E 01	A112	.29169 97499 616437 E 00
A1111	-.33419 94798 467740 C-01	A1111	-.46207 37856 015298 E-01
A2222	.21384 74920 164362 E 05	A2222	.39330 76821 993947 E 01
A11111	.17992 95597 995988 E-02	A11111	.17992 95597 995988 E-02
ER	.11757 94750 452042 E-06	ER	.20954 75792 884827 E-08

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N = 17

U	.23506 04973 674492 E 01			U	.23506 04973 674492 E 01
V	.43607 74119 276170 E 00			V	.13358 49074 013697 E 01
W	.13358 49074 013697 E 01			W	.43607 74119 276170 E 00
A0	.13931 17291 413689 E 10			A0	-.60879 08689 250084 E 08
A1	.54844 49901 910011 E 00			A1	-.17729 38728 684748 E 04
A2	-.16528 28253 552242 E 09			A2	-.24856 70236 192112 E 05
A3	.85053 45692 709745 E 04			A3	.54902 24711 847005 E 07
A11	-.72641 13123 095455 E 02			A11	-.21019 27718 848601 E 02
A22	.15630 19250 982331 E 08			A22	.24237 56081 756845 E 04
A33	-.65285 02542 783826 E 03			A33	-.34968 20283 093043 E 06
A12	.48184 95919 485102 E 01			A12	-.20638 94641 632642 E 02
A13	-.51282 16062 495685 E 01			A13	.76377 20230 619774 E 02
A111	.60013 31507 646324 E 00			A111	.10649 82376 378717 E 01
A222	-.10514 27820 057083 E 07			A222	-.17089 96724 722666 E 03
A333	.29250 63220 894635 E 02			A333	.11883 39957 076330 E 05
A112	.23852 90212 890422 E 01			A112	.51702 43451 276912 E 00
A1111	-.65613 65232 567418 E-01			A1111	-.88275 78289 236279 E-01
A2222	.37903 48107 310186 E 05			A2222	.69711 97159 050395 E 01
A11111	.31891 68411 585333 E-02			A11111	.31891 68411 585333 E-02
ER	.45495 10776 996613 E-06			ER	.13445 96967 101097 E-07

N = 18

U	.23506 04973 674492 E 01			U	.23506 04973 674492 E 01
V	.43607 74119 276170 E 00			V	.13358 49074 013697 E 01
W	.13358 49074 013697 E 01			W	.43607 74119 276170 E 00
A0	.31819 11593 787103 E 10			A0	-.12990 05889 759951 E 09
A1	.29867 43159 948132 E 03			A1	-.32493 03706 260441 E 04
A2	-.35635 56567 904929 E 09			A2	-.53883 01678 882372 E 05
A3	.17615 18725 682932 E 05			A3	.11054 74080 737998 E 08
A11	-.13984 65129 730306 E 03			A11	-.43534 86811 987892 E 02
A22	.31699 73816 561263 E 08			A22	.49512 43866 949436 E 04
A33	-.12608 37738 944279 E 04			A33	-.66192 08123 313790 E 06
A12	.89928 00133 421988 E-01			A12	-.38940 38363 731798 E 02
A13	-.90895 26308 246029 E 01			A13	.13537 50663 490099 E 03
A111	.13189 13270 931270 E 01			A111	.22231 82870 414717 E 01
A222	-.19979 71630 590859 E 07			A222	-.32762 40330 919217 E 03
A333	.51845 39584 196409 E 02			A333	.21062 77733 104849 E 05
A112	.42278 16823 364867 E 01			A112	.91640 17915 334791 E 00
A1111	-.12760 24784 012182 E 00			A1111	-.16777 53763 554218 E 00
A2222	.67182 17099 074379 E 05			A2222	.12356 12524 998047 E 02
A11111	.56526 53832 300651 E-02			A11111	.56526 53832 300651 E-02
ER	.25751 06918 811798 E-06			ER	.62868 27378 654480 E-08

N = 19

U	.23506 04973 674492 E 01		U	.23506 04973 674492 E 01	
V	.43607 74119 276170 E 00		V	.13358 49074 013697 E 01	
W	.13358 49074 013697 E 01		W	.43607 74119 276170 E 00	
A0	.71579 45899 878059 E 10		A0	-.27417 87749 38897A E 09	
A1	.11283 19286 773909 E 04		A1	-.59173 34955 326041 E 04	
A2	-.75911 44408 896083 E 09		A2	-.11541 21897 699617 E 06	
A3	.36091 45571 716947 E 05		A3	.22089 31741 147502 E 08	
A11	-.26851 89672 472257 E 03		A11	-.89562 73148 842739 F 02	
A22	.63745 25719 635707 E 08		A22	.10024 85086 407919 E 05	
A33	-.24185 63848 782476 E 04		A33	-.12478 89694 393631 E 07	
A12	-.14836 68945 597779 E 02		A12	-.71336 28197 688541 E 02	
A13	-.16110 76590 795766 E 02		A13	.23904 60576 668923 E 03	
A111	.28301 28186 738764 E 01		A111	.45753 13535 961911 E 01	
A222	-.37794 67106 010213 E 07		A222	-.62449 98026 661704 E 03	
A333	.91893 57151 181013 E 02		A333	.37332 80079 118250 E 05	
A112	.74936 10209 496183 E 01		A112	.16242 79884 380229 E 01	
A1111	-.24620 76403 331213 E 00		A1111	-.31741 22480 140837 E 00	
A2222	.11907 72976 847367 E 06		A2222	.21900 66178 159876 E 02	
A11111	.10019 06805 289711 E-01		A11111	.10019 06805 289711 E-01	
ER	.30267 98367 500305 E-06		ER	.60535 96735 000610 F-07	

N = 20

U	.23506 04973 674492 E 01		U	.23506 04973 674492 E 01	
V	.43607 74119 276170 E 00		V	.13358 49074 013697 E 01	
W	.13358 49074 013697 E 01		W	.43607 74119 276170 E 00	
A0	.15886 87680 182581 E 11		A0	-.57313 82249 343041 E 09	
A1	.31915 71672 252026 E 04		A1	-.10708 16286 512666 E 05	
A2	-.15999 50457 723422 E 10		A2	-.24457 36864 758440 E 06	
A3	.73252 64492 249042 E 05		A3	.43839 78157 799137 E 08	
A11	-.51442 18106 977612 E 03		A11	-.18311 52557 194389 E 03	
A22	.12722 76247 068295 E 09		A22	.20137 65132 829010 E 05	
A33	-.46125 47036 834323 E 04		A33	-.23441 66827 300128 E 07	
A12	-.52861 50390 694987 E 02		A12	-.13219 81899 712486 E 03	
A13	-.28555 58907 459692 E 02		A13	.42589 33139 212865 E 03	
A111	.59600 88306 614333 E 01		A111	.93057 62561 561467 F 01	
A222	-.71210 49056 091995 E 07		A222	-.11845 32904 749736 E 04	
A333	.16287 71146 995700 E 03		A333	.66170 66652 741964 F 05	
A112	.13282 07827 300640 E 02		A112	.28789 61136 018102 E 01	
A1111	-.47190 83517 364849 E 00		A1111	-.59811 52328 228232 E 00	
A2222	.21105 90148 367339 E 06		A2222	.38817 91231 217401 E 02	
A11111	.17758 33575 284191 E-01		A11111	.17758 33575 284191 F-01	
ER	.12349 33733 940125 E-05		ER	.27939 67723 840486 E-07	

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