Best Linear Unbiased Estimators of the Parameters of the Logistic Distribution Using Order Statistics

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1. Introduction and Summary

The logistic distribution is described by the density function

$$(1.1)\quad f(x;\mu,\sigma) = (1/\sigma')\exp\{-(x-\mu)/\sigma'\}/[1+\exp\{-(x-\mu)/\sigma'\}]^2,$$

where

$$-\infty < x < \infty,\ -\infty < \mu < \infty \text{ and } \sigma' = \frac{\sqrt{3}\,\sigma}{\pi} > 0.$$

This distribution is symmetrical with mean μ and variance σ^2.

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The problem of estimating the parameters μ and σ by using ordered observations has been studied by Plackett (1959) for small samples and by Kjelsberg (1962) for sample size $n \leq 5$. For large samples, contributions to the above estimation problem has been made by Gupta and Waknis (1964). The best linear unbiased estimators for the parameters of the normal and the other distributions have been constructed by Sarhan and Greenberg (1956, 1962). But owing to the difficulty of computing the covariances of order statistics, the best linear unbiased estimators of the parameters had not been computed in general.

In this paper, we construct these linear unbiased estimators with a minimum variance based on ordered observations from the complete as well as the censored sample case for sample sizes n= 2 (1) 25. The censored sample case consists of the $n - r_1 - r_2$ observations, where r_1 observations are missing in the beginning and r_2 observations are missing at the end. The variances and covariances of these estimators are also evaluated. A table of the variances and covariances of all order statistics for n = 11 (1) 25 is also given. Relative efficiencies of these estimators are studied.

2. Best Linear Unbiased Estimators of μ and σ

Let $x_{1,n} \leq x_{2,n} \leq \ldots\ldots \leq x_{n,n}$ be the n ordered observations from the logistic distribution, with mean μ and variance σ^2 which has the density function (1.1). We are interested in constructing estimators $\hat{\mu}$ and $\hat{\sigma}$ based on the $n - r_1 - r_2$ observations $x_{r_1+1,\,n} \leq x_{r_1+2,\,n} \leq \ldots\ldots \leq x_{n-r_2,\,n}$, where r_1 observations are missing on the left side and r_2 observations are missing on the right-hand side.

Let the required estimators be

$$(2.1) \qquad \hat{\mu} = \sum_{i=r_1+1}^{n-r_2} a_{i,n}\, x_{i,n},$$

$$(2.2) \qquad \hat{\sigma} = \sum_{i=r_1+1}^{n-r_2} b_{i,n}\, x_{i,n}.$$

The problem is to find the coefficients a_i and b_i such that in the class of linear unbiased estimators, $\hat{\mu}$ and $\hat{\sigma}$ have a minimum variance.

It follows from the condition of unbiasedness that

$$(2.3) \qquad \Sigma a_{i,n} = 1 \quad \text{and} \quad \Sigma a_i \mu_1'(i,n) = 0,$$

$$(2.4) \qquad \Sigma b_{i,n} = 0 \quad \text{and} \quad \Sigma b_{i,n} \mu_1'(i,n) = 1,$$

where $\mu_1'(i,n)$ is the first moment or cumulant of the ith order statistic in a sample of size n from the logistic distribution $L(0,1)$, i.e., the distribution with mean zero and variance unity. It should be pointed out that (2.3) and (2.4) are necessary conditions.

The estimators $\hat{\mu}$ and $\hat{\sigma}$ can be written, using the matrix notation and following the generalized least - squares theory, Lloyd (1952), in the following form:

$$(2.5) \qquad \hat{\mu} = -\underline{a}' \Gamma \underline{x},$$

$$(2.6) \qquad \hat{\sigma} = \underline{1}' \Gamma \underline{x},$$

where $\underline{x}' = (x_{r_1+1,\,n}, \ldots\ldots, x_{n-r_2,\,n})$,

$\underline{a}' = (\mu_1'(r_1+1, n), \ldots\ldots, \mu_1'(n-r_2, n))$,

$\underline{1}' = (1, \ldots\ldots, 1)$: $1'$ is a vector with $n - r_1 - r_2$ components,

$\Gamma = [\, V^{-1} (\underline{1}\,\underline{a}' - \underline{a}\,\underline{1}')\, V^{-1}\,] \,/\, \Delta$: $\Delta = (\underline{1}' V^{-1} \underline{1})\ (\underline{a}' V^{-1} \underline{a}) - (\underline{1}' V^{-1} \underline{a})^2$,

and where V is the variance-covariance matrix of $n - r_1 - r_2$ appropriate order statistics.

The special case $r_1 = 0$, $r_2 = 0$ is of importance, since this represents the complete sample case.

The variances and covariances of $\hat{\mu}$ and $\hat{\sigma}$ can be expressed as

$$(2.7) \qquad \mathrm{Var}(\hat{\mu}) = (\underline{a}' V^{-1} \underline{a})\, \sigma^2 / \Delta,$$

$$(2.8) \qquad \mathrm{Var}(\hat{\sigma}) = (\underline{1}' V^{-1} \underline{1})\, \sigma^2 / \Delta \quad \text{and}$$

$$(2.9) \qquad \mathrm{Cov}(\hat{\mu}, \hat{\sigma}) = -(\underline{1}' V^{-1} \underline{a})\, \sigma^2 / \Delta.$$

When $r_1 = r_2 = 0$, the symmetry of the distribution implies that $\mathrm{Cov}(\hat{\mu}, \hat{\sigma}) = 0$.

Thus, for constructing $\hat{\mu}$ and $\hat{\sigma}$, one needs the expected values of $x_{i,n}$, $x^2_{i,n}$ and $(x_{i,n}\ x_{j,n})$. The first two of these are available in closed form and also numerically in the papers by Plackett (1958), Birnbaum and Dudman (1963) and Gupta and Shah (1965). In a recent paper, the covariances of the order statistics $x_{i,n}$ and $x_{j,n}$ have been expressed in a closed form in terms of digamma and trigamma functions by Shah (1965) where numerical values of these covariances are also given for n = 2 (1) 10. Table 1 of this paper gives these covariances for n = 11 (1) 25. In Table 2, the coefficients of the estimators for both complete and censored samples are given.

3. Relative Efficiencies of the Estimators For the Uncensored Sample Cases

Now the relative efficiencies of the estimator $\hat{\mu}$ and $\hat{\sigma}$ will be discussed for the uncensored sample cases. In developing various formulae, we will follow the general notation as described in Paragraph 2 for the special case since the uncensored case is simply the one where $r_1 = 0$ and $r_2 = 0$.

The relative efficiency is defined in terms of the reciprocal of the ratio of the variances of these estimators to the lower bound on these variances as obtained by Cramér-Rao inequality. These bounds are:

$$(3.1) \qquad \text{Var}\,(\hat{\mu}) \geq (9/\pi^2)\ (\sigma^2/n)$$

$$(3.2) \qquad \text{Var}\,(\hat{\sigma}) \geq \{9/(3+\pi^2)\}\ (\sigma^2/n)$$

Hence

$$(3.3) \qquad \text{Rel. Eff. of } \hat{\mu} = (9/n\pi^2)\ [\Delta/(\underline{a}'\ V^{-1}\ \underline{a})],$$

$$(3.4) \qquad \text{Rel. Eff. of } \hat{\sigma} = 9/\{n(3+\pi^2)\}\ [\Delta/(\underline{1}'\ V^{-1}\ \underline{1})].$$

We will also study the efficiencies of these estimators as compared with the moment estimators. The moment estimator $\bar{x}$ for μ has the variance σ^2/n and hence

$$(3.5) \qquad \text{Rel. Eff. of } \bar{x} = \frac{\text{Var}\,(\hat{\mu})}{\text{Var}\,(\bar{x})} = n\,(\underline{a}'\ V^{-1}\ \underline{a})/\Delta.$$

The moment estimator for σ is $\sqrt{m_2}$ where m_2 is the second sample moment based on n observations. Now

$$(3.6) \qquad E\,(\sqrt{m_2}) = \sigma + O\,(1/n), \quad \text{Var}\,(\sqrt{m_2}) = (4/5n) + O(1/n^2).$$

The Var $(\sqrt{m_2})$ can be better approximated by

$$(3.7) \qquad \text{Var}\,(\sqrt{m_2}) \approx (n-1)\ (31n-21)/(20n^3).$$

[The formulae (3.6) and (3.7) are available in Cramér (p. 353), Kendall and Stuart (p. 233, 287) respectively].

Hence,

$$(3.8) \qquad \text{Rel. Eff. of } \sqrt{m_2} \approx \text{Var}(\hat{\sigma}) \,/\, \text{Var}(\sqrt{m_2}) = [(20n^3) / (n-1)(31n-21)] \; [(\underline{1}' V^{-1} \underline{1}) / \Delta].$$

Table 4 gives the numerical values of relative efficiencies based on (3.3), (3.4), (3.5) and (3.8) for n = 4 (1) 25. The relative efficiency of the moment estimators decreases as n increases.

It should be pointed out that the variance of $\hat{\mu}$ has a value strictly smaller than σ^2/n, since it has been obtained by constructing a linear compound of the observations with minimal variance and, therefore, it cannot exceed the variance of the particular linear compound which is the sample mean.

4. Relative Efficiencies of the Estimators for the Censored Sample Cases

The efficiencies of the estimators for the censored samples relative to the uncensored samples have also been computed. These relative efficiencies are simply the ratios of the variances of the censored sample estimator to the uncensored sample estimator. Table 3 of this paper gives these efficiencies.

5. Explanation of Tables and Comments on Their Accuracy

The covariances of order statistics were computed using the result (eq. 33) in Shah (1965), which is,

$$(5.1)\quad E(x_{i,n}, x_{j,n}) = E(x^2_{j,n}) + \sum_{k=i}^{j-1} \sum_{t=1}^{k-1} \Big[(-1)^{k+i} \binom{k-1}{i-1} \binom{n}{k} \binom{j-k+t-1}{t} B(t, n-k+1) E\left(x_{j+t-k,\, n+t-k}\right) \Big] + \binom{n}{i} \sum_{k=0}^{j-i-1} \Big[(-1)^k \binom{n-i}{k} \binom{i}{(i+k)} \{ -\psi^{(1)}(n-j) + [\psi^{(0)}(n-j) - \psi^{(0)}(n-i-k)] [\psi^{(0)}(j-i-k-1) - \psi^{(0)}(n-j)] \} \Big]$$

where $B(p, q)$ is the beta function and $\psi^{(r-1)}(x) = \dfrac{d^r \log \Gamma(1+x)}{dx^r}$

By using the known result that

$$(5.2)\quad \mathrm{Cov}(x_{i,n}, x_{j,n}) = \mathrm{Cov}(x_{n-j+1}, x_{n-i+1}), \quad i < j,$$

checks were made on the accuracy of the covariances. For this purpose, we put more reliance on that side of (5.2) which had fewer terms for its computation. The computations were carried out in double precision on an IBM 7094 computer at the Purdue Computing Center.

These checks show that our answers are correct to seven decimal places for $n \leq 20$; for n between 21 and 25, they are correct to five decimal places. The variances and covariances of order statistics N = 11 (1) 25 are given in Table 1.

In Table 2, the coefficients of $\hat{\mu}$ are given under "MU" and the coefficients of $\hat{\sigma}$ are given under "SIGMA" for given n, r_1 and r_2. These coefficients are given to four decimal places. All available checks indicate that these answers are correct to four decimal places except for round-off errors.

Table 3 gives the variances of $\hat{\mu}$ under "VARMU" and the variances of $\hat{\sigma}$ under "VARSIGMA", the Cov $(\hat{\mu}, \hat{\sigma})$ under "COV MU SIGMA" for given n, r_1, r_2. These variances and covariances are given to four decimal places. All available checks indicate that they are correct to four decimal places except for round-off errors. The percentage efficiencies of $\hat{\mu}$ and $\hat{\sigma}$ for censored samples, relative to uncensored samples, are also given in the same table under "RE MU" and "RE SIGMA" respectively.

The entries in Tables 2 and 3 on each page are given in two rectangles. The second rectangle is a continuation of the first one. Each rectangle is divided into several subrectangles (ten in Table 2 and three in Table 3). The entries start in subrectangle #1 of the first rectangle and go down vertically. They start again in subrectangle #2 of the same rectangle and go down vertically and so on.

The relative efficiencies of $\hat{\mu}$ and $\hat{\sigma}$ for the uncensored case for n = 4 (1) 25 as discussed in Paragraph 3 are given in Table 4.

Since the actual computer print-out was photo-reduced to obtain Tables 1, 2, 3 and 4, the capital letters are printed out in the tables rather than the small letters which were used in the text; i.e., N, R1, R2, I and J are printed out in place of n, r_1, r_2, i and j respectively.

The computations for Tables 2, 3 and 4 were carried out in Fortran IV on an IBM 7094 computer at the Service Bureau Corporation using a general program developed there to compute the coefficients of the linear unbiased estimators of the parameters of a distribution of the form $F(ax + b)$ using order statistics. The algorithm is based on the method given by Lloyd (1952).

6. Numerical Example

Sarhan and Greenberg (1962) discussed an experiment to measure Strontium-90 concentrations in samples of milk; measurements involved readings and calculations. A sample of ten readings was considered but owing to the relatively larger measurement error known to exist at the extremes, it was decided to trim the two smallest and the three largest observations. The observations, when arranged in an ascending order are:

–, –, 8.2, 8.4, 9.1, 9.8, 9.9, –, –, –.

If we assume that the sample was drawn from a logistic distribution, then we will construct the best linear unbiased estimates, $\hat{\mu}$ and $\hat{\sigma}$, of μ and σ, respectively, using Table 2 ($n = 10$, $r_1 = 2$, $r_2 = 3$) as follows:

Ordered Observations	Coefficients for $\hat{\mu}$	Coefficients for $\hat{\sigma}$
–	0	0
–	0	0
8.2	0.1524	-0.9306
8.4	0.1324	-0.1744
9.1	0.1538	-0.0498
9.8	0.1615	0.0791
9.9	0.3999	1.0758
–	0	0
–	0	0
–	0	0
Best Linear Unbiased Estimate	9.3031	1.8765

From Table 3, we find the percentage efficiencies of the above estimates of μ and σ relative to uncensored sample of size 10 (i.e., $n = 10$, $r_1 = 0$, $r_2 = 0$) are 94.20 and 41.88 respectively. It may be interesting to compare our results with those of Sarhan and Greenberg (1965) on the assumption of normal distribution. This comparison is as follows:

	$\hat{\mu}$	$\hat{\sigma}$	Rel. Eff. of $\hat{\mu}$	Rel. Eff. of $\hat{\sigma}$
Logistic	9.3031	1.8765	94.20	41.88
Normal	9.2900	1.6900	84.78	33.62

7. Conclusion

Some noteworthy features of the estimators $\hat{\mu}$ and $\hat{\sigma}$ become evident after studying Tables 2 and 3. They are:

(a) If the sample size is odd and all the observations are censored except the middle observation and the one immediately following or preceding it, then the middle observation will have all the weight in estimating μ. On the other hand, if the sample size is even and all the observations are censored except the middle two, then the weight of each observation will be one-half in estimating μ. This may be seen from the following abstract of Table 2:

n	r_1	r_2	Coefficients for $\hat{\mu}$
5	2	1	1.0000 0.0000
11	4	5	0.0000 1.0000
25	11	12	0.0000 1.0000
6	2	2	0.5000 0.5000
16	7	7	0.5000 0.5000
24	11	11	0.5000 0.5000

(b) If the sample size is odd and if any number of observations are censored on either side of the middle observation (which is not censored), then the relative efficiency is 76% or better. On the other hand, if the middle observation is censored and no matter how many observations remain uncensored, the relative efficiencies of $\hat{\mu}$ in such cases are less than 76%. Under the same circumstances, the efficiency of $\hat{\mu}$ is 79% or better if the sample size is even and if the middle two observations are not censored. The following abstract of Table 3 shows this:

n	r_1	r_2	Rel. Eff. of $\hat{\mu}$
11	2	5	77.60
	4	5	76.91
	6	0	62.68
	1	6	59.68
17	2	8	77.64
	7	8	76.21
	9	0	68.88
	1	9	67.52
25	2	12	77.78
	11	12	75.81
	16	0	47.07
	1	16	45.18
12	2	5	84.20
	5	5	82.17
	8	0	35.66
	2	8	20.54
18	4	8	81.64
	8	8	79.93
	10	0	64.00
	2	10	60.58

(b) (Con't)

n	r_1	r_2	Rel. Eff. of $\hat{\mu}$
24	3	11	80.70
	11	11	78.75
	13	0	68.02
	1	13	67.04

(c) For any sample size and fixed uncensored number of observations $q = n - (r_1 + r_2)$, we found that under all conditions of censoring, the efficiency of $\hat{\mu}$ attains its maximum whenever the middle observation (if the sample size is odd) or middle two observations (if the sample size is even) is uncensored. This may be seen from the following abstract of Table 3.

n	r_1	r_2	Rel. Eff. of $\hat{\mu}$
20	18	0	2.25
	1	17	3.69
	2	16	5.62
	3	15	8.35
	4	14	12.43
	5	13	18.81
	6	12	29.14
	8	10	67.22
	9	9	79.46
	10	8	67.22
	11	7	45.60
	12	6	29.14

(d) For any sample size and under all conditions of censoring, we found that for any corresponding value of r_2, the efficiency of $\hat{\sigma}$ decreases by approximately the same amount for each change in the value of r_1. It may be seen from the following abstract of Table 3:

(d) (Con't)

n	r_1	r_2	Rel. Eff. of $\hat{\sigma}$
20	1	0	95.35
	3	0	84.32
	5	0	72.19
	7	0	59.86
	9	0	47.91
	11	0	36.63

(e) For any sample size and fixed censored number of observations, m ($m = r_1 + r_2$), there is no significant difference in relative efficiency of $\hat{\sigma}$. The following abstract of Table 3 shows this:

n	r_1	r_2	Rel. Eff. of $\hat{\sigma}$
20	16	0	12.15
	1	15	12.44
	2	14	12.61
	3	13	12.73
	4	12	12.81
	5	11	12.86
	6	10	12.89
	7	9	12.91
	8	8	12.92

(NOTE that m = 16 in the above abstract)

It is interesting to note that Sarhan and Greenberg (1962) also observed the same features of the estimators $\hat{\mu}$ and $\hat{\sigma}$ on the assumption of the normal distribution.

For uncensored samples, we see from Table 4 that the efficiency of $\hat{\mu}$ and $\hat{\sigma}$, relative to Cramer-Rao lower bound, increases with n while the efficiency of the moment estimators, relative to $\hat{\mu}$, and $\hat{\sigma}$ decreases with n.

8. Acknowledgements

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References

[1] Birnbaum, A. and Dudman, J. (1963). Logistic Order Statistics. Ann. Math. Statist. 34, 658-663.

[2] Cramér, Harald (1951). Mathematical Methods of Statistics. Princeton University Press, Princeton.

[3] Gupta, S. S. and Waknis, M. N. (1964). Estimation of the Parameters of the Logistic Distribution. Accepted for publication in Biometrika.

[4] Gupta, Shanti S. and Shah, Bhupendra, K. (1965). Exact Moments and Percentage Points of the Order Statistics and the Distribution of the Range from the Logistic Distribution. Ann. Math. Statist. 36, 907-920.

[5] Kendall, M. G. and Stuart, A. (1963). The Advanced Theory of Statistics, Vol. 1. Charles Griffin and Co., London.

[6] Kjelsberg, Marcus O. (1962). Estimation of the Parameters of the Logistic Distribution under Truncation and Censoring. Ph. D. Thesis, University of Minnesota.

[7] Lloyd, E. H. (1952). Least Squares Estimation of Location and Scale Parameters Using Order Statistics. Biometrika 39, 88-95.

[8] Plackett, R. L. (1958). Linear Estimation from Censored Data. Ann. Math. Statist. 29, 131-142.

[9] Plackett, R. L. (1959). The Analysis of Life Test Data. Technometrics 1, 9-19.

[10] Sarhan, A. E. and Greenberg, B. G. (1956). Estimation of Location and Scale Parameters by Order Statistics from Singly and Doubly Censored Samples. Ann. Math. Statist. 27, 427-451.

[11] Sarhan, A. E. and Greenberg, B. G. (1962). Contribution to Order Statistics. John Wiley, New York.

[12] Shah, B. K. (1965). On the Bivariate Moments of Order Statistics from a Logistic Distribution and Applications. Dept. of Statistics, Purdue University, Mimeograph Series Number 48. Submitted for publication to the Ann. Math. Statist.

TABLE 1

VARIANCES AND COVARIANCES OF ORDER STATISTICS IN SAMPLE OF SIZES ELEVEN TO TWENTY - FIVE FROM A LOGISTIC DISTRIBUTION

N	I	J	VALUE
11	1	1	0.52892709
		2	0.21072902
		3	0.12991984
		4	0.09371413
		5	0.07324781
		6	0.06010566
		7	0.05095716
		8	0.04422355
		9	0.03906076
		10	0.03497683
		11	0.03166572
	2	2	0.22800317
		3	0.14163240
		4	0.10259055
		5	0.08039948
		6	0.06609615
		7	0.05611200
		8	0.04874793
		9	0.04309245
		10	0.03861280
	3	3	0.15576492
		4	0.11336736
		5	0.08911954
		6	0.07342345
		7	0.06243250
		8	0.05430614
		9	0.04805317
	4	4	0.12674063
		5	0.09999408
		6	0.08259481
		7	0.07036632
		8	0.06129909
	5	5	0.11394624
		6	0.09441321
		7	0.08062508
	6	6	0.11023113
12	1	1	0.52641499
		2	0.20943498
		3	0.12904379
		4	0.09305085
		5	0.07271378
		6	0.05965856
		7	0.05057257
		8	0.04388610
		9	0.03876014
		10	0.03470577
		11	0.03141892
		12	0.02870056
	2	2	0.22496354
		3	0.13955642
		4	0.10101011
		5	0.07912215
		6	0.06502375
		7	0.05518757
		8	0.04793543
		9	0.04236761
		10	0.03795848
		11	0.03438050
	3	3	0.15201229
		4	0.11049274
		5	0.08678616
		6	0.07145815
		7	0.06073415
		8	0.05281046
		9	0.04671668
		10	0.04188438
	4	4	0.12199119
		5	0.09611966
		6	0.07931936
		7	0.06752753
		8	0.05879318
		9	0.05206262
	5	5	0.10774291
		6	0.08914572
		7	0.07604390
		8	0.06631090
	6	6	0.10178770
		7	0.08703872
13	1	1	0.52430414
		2	0.20835027
		3	0.12831040
		4	0.09249604
		5	0.07226734
		6	0.05928494
		7	0.05025130
		8	0.04360428
		9	0.03850912
		10	0.03447948
		11	0.03121290
		12	0.02851149
		13	0.02624029
	2	2	0.22245145
		3	0.13784438
		4	0.09970849
		5	0.07807115
		6	0.06414199
		7	0.05442788
		8	0.04726802
		9	0.04177240
		10	0.03742135
		11	0.03389110
		12	0.03096943
	3	3	0.14897265
		4	0.10816899
		5	0.08490261
		6	0.06987341
		7	0.05936582
		8	0.05160621
		9	0.04564120
		10	0.04091267
		11	0.03707223
	4	4	0.11823856
		5	0.09306464
		6	0.07674060
		7	0.06529527
		8	0.05682462
		9	0.05030161
		10	0.04512338
	5	5	0.10299347
		6	0.08512156
		7	0.07255013
		8	0.06322246
		9	0.05602489
	6	6	0.09558436
		7	0.08163396
		8	0.07125244
	7	7	0.09334427
14	1	1	0.52250554
		2	0.20742793
		3	0.12768749
		4	0.09202513
		5	0.07188857
		6	0.05896807
		7	0.04997889
		8	0.04336537
		9	0.03829636
		10	0.03428770
		11	0.03103834
		12	0.02835130
		13	0.02609228
		14	0.02416659
	2	2	0.22034059
		3	0.13640835
		4	0.09861795
		5	0.07719129
		6	0.06340423
		7	0.05379254
		8	0.04671004
		9	0.04127495
		10	0.03697255
		11	0.03348225
		12	0.03059399
		13	0.02816441
	3	3	0.14646056
		4	0.10625173
		5	0.08335038
		6	0.06856855
		7	0.05823991
		8	0.05061586
		9	0.04475714
		10	0.04011422
		11	0.03634421
		12	0.03322207
	4	4	0.11519893
		5	0.09059415
		6	0.07465786
		7	0.06349413
		8	0.05523749
		9	0.04888275
		10	0.04384034
		11	0.03974161
	5	5	0.09924084
		6	0.08194747
		7	0.06979812
		8	0.06079242
		9	0.05384876
		10	0.04833097
	6	6	0.09083493

TABLE 1

N	I	J	VALUE
14	6	7	0.07750373
		8	0.06759652
		9	0.05994191
	7	7	0.08714093
		8	0.07612699
15	1	1	0.52095471
		2	0.20663407
		3	0.12715184
		4	0.09162042
		5	0.07156319
		6	0.05869594
		7	0.04974501
		8	0.04316028
		9	0.03811374
		10	0.03412311
		11	0.03088854
		12	0.02821384
		13	0.02596529
		14	0.02404858
		15	0.02239532
	2	2	0.21854199
		3	0.13518661
		4	0.09769103
		5	0.07644392
		6	0.06277788
		7	0.05325335
		8	0.04623665
		9	0.04085300
		10	0.03659193
		11	0.03313559
		12	0.03027571
		13	0.02787020
		14	0.02581876
	3	3	0.14434970
		4	0.10464296
		5	0.08204917
		6	0.06747552
		7	0.05729730
		8	0.04978712
		9	0.04401761
		10	0.03944651
		11	0.03573556
		12	0.03266286
		13	0.03007678
	4	4	0.11268683

N	I	J	VALUE
15	4	5	0.08855522
		6	0.07294070
		7	0.06201033
		8	0.05393085
		9	0.04771525
		10	0.04278506
		11	0.03877880
		12	0.03545890
	5	5	0.09620120
		6	0.07938005
		7	0.06757458
		8	0.05883077
		9	0.05209337
		10	0.04674233
		11	0.04238934
	6	6	0.08708230
		7	0.07424521
		8	0.06471573
		9	0.05735953
		10	0.05150825
	7	7	0.08239150
		8	0.07191771
		9	0.06381548
	8	8	0.08093759
16	1	1	0.51960375
		2	0.20594361
		3	0.12668633
		4	0.09126889
		5	0.07128066
		6	0.05845971
		7	0.04954200
		8	0.04298230
		9	0.03795529
		10	0.03398031
		11	0.03075858
		12	0.02809460
		13	0.02585513
		14	0.02394622
		15	0.02229973
		16	0.02086504
	2	2	0.21699115
		3	0.13413454
		4	0.09689349
		5	0.07580124

N	I	J	VALUE
16	2	6	0.06223949
		7	0.05279003
		8	0.04582997
		9	0.04049060
		10	0.03626508
		11	0.03283793
		12	0.03000245
		13	0.02761764
		14	0.02558398
		15	0.02382924
	3	3	0.14255110
		4	0.10327381
		5	0.08094269
		6	0.06654663
		7	0.05649663
		8	0.04908343
		9	0.04338988
		10	0.03887988
		11	0.03521917
		12	0.03218850
		13	0.02963811
		14	0.02746222
	4	4	0.11057597
		5	0.08684393
		6	0.07150070
		7	0.06076687
		8	0.05283643
		9	0.04673781
		10	0.04190191
		11	0.03797327
		12	0.03471842
		13	0.03197768
	5	5	0.09368911
		6	0.07726068
		7	0.06574073
		8	0.05721411
		9	0.05064759
		10	0.04543455
		11	0.04119538
		12	0.03768036
	6	6	0.08404266
		7	0.07160902
		8	0.06238742
		9	0.05527411
		10	0.04961947
		11	0.04501605
	7	7	0.07863887

N	I	J	VALUE
16	7	8	0.06859624
		9	0.06083522
		10	0.05465622
	8	8	0.07618816
		9	0.06764725
17	1	1	0.51841640
		2	0.20533756
		3	0.12627803
		4	0.09096069
		5	0.07103303
		6	0.05825270
		7	0.04935415
		8	0.04282639
		9	0.03781649
		10	0.03385524
		11	0.03064477
		12	0.02799018
		13	0.02575867
		14	0.02385659
		15	0.02221603
		16	0.02078653
		17	0.01952983
	2	2	0.21564020
		3	0.13321911
		4	0.09620002
		5	0.07524270
		6	0.06177175
		7	0.05238762
		8	0.04547683
		9	0.04017595
		10	0.03598136
		11	0.03257958
		12	0.02976531
		13	0.02739847
		14	0.02538025
		15	0.02363893
		16	0.02212117
	3	3	0.14100026
		4	0.10209447
		5	0.07999029
		6	0.06576271
		7	0.05580810
		8	0.04847849
		9	0.04285038
		10	0.03839301
		11	0.03477554

TABLE 1

N	I	J	VALUE
17	3	12	0.03178105
		13	0.02926137
		14	0.02711187
		15	0.02525657
	4	4	0.10877737
		5	0.08538722
		6	0.07027583
		7	0.05970976
		8	0.05190644
		9	0.04590753
		10	0.04115196
		11	0.03728943
		12	0.03408994
		13	0.03139623
		14	0.02909715
	5	5	0.09157825
		6	0.07548156
		7	0.06420247
		8	0.05585886
		9	0.04943619
		10	0.04433925
		11	0.04019577
		12	0.03676100
		13	0.03386734
	6	6	0.08153056
		7	0.06943255
		8	0.06046671
		9	0.05355494
		10	0.04806327
		11	0.04359444
		12	0.03988680
	7	7	0.07559923
		8	0.06590873
		9	0.05842595
		10	0.05247249
		11	0.04762235
	8	8	0.07243553
		9	0.06427703
		10	0.05777583
	9	9	0.07143874
18	1	1	0.51736462
		2	0.20480137
		3	0.12591701

N	I	J	VALUE
18	1	4	0.09068829
		5	0.07081421
		6	0.05806983
		7	0.04920705
		8	0.04268869
		9	0.03769393
		10	0.03374480
		11	0.03054427
		12	0.02789798
		13	0.02567351
		14	0.02377746
		15	0.02214213
		16	0.02071722
		17	0.01946457
		18	0.01835474
	2	2	0.21445285
		3	0.13241533
		4	0.09559152
		5	0.07475280
		6	0.06136163
		7	0.05203486
		8	0.04516733
		9	0.03990023
		10	0.03573276
		11	0.03235324
		12	0.02955756
		13	0.02720650
		14	0.02520182
		15	0.02347224
		16	0.02196479
		17	0.02063925
	3	3	0.13964932
		4	0.10106806
		5	0.07916190
		6	0.06505277
		7	0.05520971
		8	0.04795291
		9	0.04238175
		10	0.03797016
		11	0.03439032
		12	0.03142729
		13	0.02893431
		14	0.02680777
		15	0.02497239
		16	0.02337223
	4	4	0.10722654
		5	0.08413223
		6	0.06922124

N	I	J	VALUE
18	4	7	0.05880006
		8	0.05110646
		9	0.04519355
		10	0.04050721
		11	0.03670164
		12	0.03354985
		13	0.03089665
		14	0.02863242
		15	0.02667743
	5	5	0.08977965
		6	0.07396688
		7	0.06289371
		8	0.05470640
		9	0.04840650
		10	0.04340857
		11	0.03934667
		12	0.03598027
		13	0.03314476
		14	0.03072372
	6	6	0.07941971
		7	0.06760526
		8	0.05885525
		9	0.05211338
		10	0.04675899
		11	0.04240344
		12	0.03879090
		13	0.03574605
	7	7	0.07308713
		8	0.06368963
		9	0.05643806
		10	0.05067182
		11	0.04597643
		12	0.04207862
	8	8	0.06939589
		9	0.06154978
		10	0.05530212
		11	0.05020878
	9	9	0.06768610
		10	0.06086797
19	1	1	0.51642646
		2	0.20432361
		3	0.12559551
		4	0.09044579
		5	0.07061947

N	I	J	VALUE
19	1	6	0.05790708
		7	0.04906727
		8	0.04256619
		9	0.03758489
		10	0.03364656
		11	0.03045487
		12	0.02781598
		13	0.02559776
		14	0.02370708
		15	0.02207641
		16	0.02065558
		17	0.01940653
		18	0.01829991
		19	0.01731266
	2	2	0.21340106
		3	0.13170396
		4	0.09505327
		5	0.07431962
		6	0.06099908
		7	0.05172309
		8	0.04489383
		9	0.03965662
		10	0.03551314
		11	0.03215330
		12	0.02937406
		13	0.02703694
		14	0.02504424
		15	0.02332503
		16	0.02182669
		17	0.02050920
		18	0.01934168
	3	3	0.13846195
		4	0.10016665
		5	0.07843480
		6	0.06444321
		7	0.05468486
		8	0.04749201
		9	0.04197088
		10	0.03759951
		11	0.03405269
		12	0.03111727
		13	0.02864773
		14	0.02654132
		15	0.02472343
		16	0.02313859
		17	0.02174469
	4	4	0.10587559
		5	0.08303981

TABLE 1

N	I	J	VALUE
19	4	6	0.06830376
		7	0.05800896
		8	0.05041100
		9	0.04457302
		10	0.03994700
		11	0.03619102
		12	0.03308072
		13	0.03046279
		14	0.02822886
		15	0.02630023
		16	0.02461831
	5	5	0.08822881
		6	0.07266180
		7	0.06176668
		8	0.05371442
		9	0.04752051
		10	0.04260802
		11	0.03861649
		12	0.03530903
		13	0.03252365
		14	0.03014573
		15	0.02809194
	6	6	0.07762111
		7	0.06604940
		8	0.05748396
		9	0.05088726
		10	0.04565009
		11	0.04139119
		12	0.03785974
		13	0.03488391
		14	0.03234209
	7	7	0.07097628
		8	0.06182636
		9	0.05476996
		10	0.04916161
		11	0.04459663
		12	0.04080839
		13	0.03761402
	8	8	0.06688379
		9	0.05929764
		10	0.05326074
		11	0.04834179
		12	0.04425617
	9	9	0.06464646
		10	0.05810902
		11	0.05277590

N	I	J	VALUE
19	10	10	0.06393346
20	1	1	0.51558445
		2	0.20389523
		3	0.12530739
		4	0.09022853
		5	0.07044503
		6	0.05776134
		7	0.04894210
		8	0.04245649
		9	0.03748725
		10	0.03355861
		11	0.03037485
		12	0.02774256
		13	0.02552995
		14	0.02364409
		15	0.02201759
		16	0.02060041
		17	0.01935459
		18	0.01825083
		19	0.01726615
		20	0.01638227
	2	2	0.21246291
		3	0.13106994
		4	0.09457377
		5	0.07393386
		6	0.06067631
		7	0.05144557
		8	0.04465042
		9	0.03943983
		10	0.03531773
		11	0.03197540
		12	0.02921081
		13	0.02688609
		14	0.02490404
		15	0.02319410
		16	0.02170385
		17	0.02039351
		18	0.01923236
		19	0.01819631
	3	3	0.13741018
		4	0.09936871
		5	0.07779147
		6	0.06390408
		7	0.05422076
		8	0.04708457
		9	0.04160773
		10	0.03727194

N	I	J	VALUE
20	3	11	0.03375435
		12	0.03084335
		13	0.02839454
		14	0.02630592
		15	0.02450351
		16	0.02293222
		17	0.02155031
		18	0.02032547
	4	4	0.10468823
		5	0.08208030
		6	0.06749828
		7	0.05731469
		8	0.04980086
		9	0.04402874
		10	0.03945572
		11	0.03574330
		12	0.03266946
		13	0.03008247
		14	0.02787516
		15	0.02596965
		16	0.02430802
		17	0.02284624
	5	5	0.08687787
		6	0.07152565
		7	0.06078601
		8	0.05285159
		9	0.04675012
		10	0.04191212
		11	0.03798188
		12	0.03472577
		13	0.03198402
		14	0.02964365
		15	0.02762252
		16	0.02585947
	6	6	0.07607027
		7	0.06470871
		8	0.05630291
		9	0.04983167
		10	0.04469576
		11	0.04052030
		12	0.03705882
		13	0.03414251
		14	0.03165196
		15	0.02950021
	7	7	0.06917768
		8	0.06023975
		9	0.05335029

N	I	J	VALUE
20	7	10	0.04787689
		11	0.04342330
		12	0.03972857
		13	0.03661385
		14	0.03395240
	8	8	0.06477294
		9	0.05740650
		10	0.05154753
		11	0.04677570
		12	0.04281377
		13	0.03947147
	9	9	0.06213437
		10	0.05583055
		11	0.05069093
		12	0.04641976
	10	10	0.06089383
		11	0.05532422
21	1	1	0.51482455
		2	0.20350894
		3	0.12504768
		4	0.09003276
		5	0.07028788
		6	0.05763005
		7	0.04882935
		8	0.04235769
		9	0.03739934
		10	0.03347941
		11	0.03030279
		12	0.02767646
		13	0.02546890
		14	0.02358736
		15	0.02196462
		16	0.02055074
		17	0.01930782
		18	0.01820665
		19	0.01722428
		20	0.01634248
		21	0.01554655
	2	2	0.21162090
		3	0.13050129
		4	0.09414391
		5	0.07358813
		6	0.06038709
		7	0.05119696
		8	0.04443238

TABLE 1

N	I	J	VALUE
21	2	9	0.03924567
		10	0.03514270
		11	0.03181610
		12	0.02906462
		13	0.02675103
		14	0.02477852
		15	0.02307687
		16	0.02159388
		17	0.02028995
		18	0.01913451
		19	0.01810355
		20	0.01717801
	3	3	0.13647202
		4	0.09865743
		5	0.07721824
		6	0.06342383
		7	0.05380747
		8	0.04672179
		9	0.04128443
		10	0.03698037
		11	0.03348881
		12	0.03059960
		13	0.02815922
		14	0.02609647
		15	0.02430782
		16	0.02274862
		17	0.02137737
		18	0.02016202
		19	0.01907744
	4	4	0.10363645
		5	0.08123084
		6	0.06678550
		7	0.05670053
		8	0.04926123
		9	0.04354748
		10	0.03902140
		11	0.03534755
		12	0.03230598
		13	0.02974638
		14	0.02756263
		15	0.02567758
		16	0.02403387
		17	0.02258796
		18	0.02130614
	5	5	0.08569051
		6	0.07052763
		7	0.05992492
		8	0.05209424
21	5	9	0.04607411
		10	0.04130159
		11	0.03742525
		12	0.03421426
		13	0.03151087
		14	0.02920347
		15	0.02721102
		16	0.02547311
		17	0.02394392
	6	6	0.07471932
		7	0.06354146
		8	0.05527510
		9	0.04891338
		10	0.04386579
		11	0.03976309
		12	0.03636260
		13	0.03349814
		14	0.03105225
		15	0.02893936
		16	0.02709580
	7	7	0.06762684
		8	0.05887245
		9	0.05212742
		10	0.04677068
		11	0.04241333
		12	0.03879936
		13	0.03575341
		14	0.03315119
		15	0.03090234
	8	8	0.06297434
		9	0.05579603
		10	0.05008930
		11	0.04544324
		12	0.04158700
		13	0.03833475
		14	0.03555483
	9	9	0.06002351
		10	0.05391715
		11	0.04894094
		12	0.04480729
		13	0.04131864
	10	10	0.05838173
		11	0.05302424
		12	0.04856974
	11	11	0.05785419
22	1	1	0.51413529
		2	0.20315885
		3	0.12481242
		4	0.08985545
		5	0.07014555
		6	0.05751117
		7	0.04872727
		8	0.04226825
		9	0.03731974
		10	0.03340770
		11	0.03023756
		12	0.02761663
		13	0.02541364
		14	0.02353603
		15	0.02191669
		16	0.02050578
		17	0.01926550
		18	0.01816666
		19	0.01718639
		20	0.01630647
		21	0.01551226
		22	0.01479180
	2	2	0.21086100
		3	0.12998842
		4	0.09375639
		5	0.07327653
		6	0.06012647
		7	0.05097295
		8	0.04423594
		9	0.03907076
		10	0.03498507
		11	0.03167261
		12	0.02893296
		13	0.02662939
		14	0.02466549
		15	0.02297129
		16	0.02149484
		17	0.02019670
		18	0.01904639
		19	0.01802003
		20	0.01709864
		21	0.01626685
	3	3	0.13563002
		4	0.09801940
		5	0.07670425
		6	0.06299335
		7	0.05343707
		8	0.04639672
		9	0.04099479
22	3	10	0.03671917
		11	0.03325096
		12	0.03038124
		13	0.02796744
		14	0.02590889
		15	0.02413259
		16	0.02258420
		17	0.02122251
		18	0.02001566
		19	0.01893870
		20	0.01797170
	4	4	0.10269830
		5	0.08047353
		6	0.06615027
		7	0.05615335
		8	0.04878058
		9	0.04311889
		10	0.03863467
		11	0.03499521
		12	0.03198241
		13	0.02944722
		14	0.02728446
		15	0.02541763
		16	0.02378992
		17	0.02235813
		18	0.02108891
		19	0.01995607
	5	5	0.08463873
		6	0.06964400
		7	0.05916283
		8	0.05142415
		9	0.04547612
		10	0.04076166
		11	0.03693306
		12	0.03376204
		13	0.03109261
		14	0.02881438
		15	0.02684734
		16	0.02513167
		17	0.02362218
		18	0.02228376
	6	6	0.07353197
		7	0.06251605
		8	0.05437253
		9	0.04810723
		10	0.04313736
		11	0.03909867
		12	0.03575183

TABLE 1

N	I	J	VALUE
14	6	7	0.07750373
		8	0.06759652
		9	0.05994191
	7	7	0.08714093
		8	0.07612699
15	1	1	0.52095471
		2	0.20663407
		3	0.12715184
		4	0.09162042
		5	0.07156319
		6	0.05869594
		7	0.04974501
		8	0.04316028
		9	0.03811374
		10	0.03412311
		11	0.03088854
		12	0.02821384
		13	0.02596529
		14	0.02404858
		15	0.02239532
	2	2	0.21854199
		3	0.13518661
		4	0.09769103
		5	0.07644392
		6	0.06277788
		7	0.05325335
		8	0.04623665
		9	0.04085300
		10	0.03659193
		11	0.03313559
		12	0.03027571
		13	0.02787020
		14	0.02581876
	3	3	0.14434970
		4	0.10464296
		5	0.08204917
		6	0.06747552
		7	0.05729730
		8	0.04978712
		9	0.04401761
		10	0.03944651
		11	0.03573556
		12	0.03266286
		13	0.03007678
	4	4	0.11268683

N	I	J	VALUE
15	4	5	0.08855522
		6	0.07294070
		7	0.06201033
		8	0.05393085
		9	0.04771525
		10	0.04278506
		11	0.03877880
		12	0.03545890
	5	5	0.09620120
		6	0.07938005
		7	0.06757458
		8	0.05883077
		9	0.05209337
		10	0.04674233
		11	0.04238934
	6	6	0.08708230
		7	0.07424521
		8	0.06471573
		9	0.05735953
		10	0.05150825
	7	7	0.08239150
		8	0.07191771
		9	0.06381548
	8	8	0.08093759
16	1	1	0.51960375
		2	0.20594361
		3	0.12668633
		4	0.09126889
		5	0.07128066
		6	0.05845971
		7	0.04954200
		8	0.04298230
		9	0.03795529
		10	0.03398031
		11	0.03075858
		12	0.02809460
		13	0.02585513
		14	0.02394622
		15	0.02229973
		16	0.02086504
	2	2	0.21699115
		3	0.13413454
		4	0.09689349
		5	0.07580124

N	I	J	VALUE
16	2	6	0.06223949
		7	0.05279003
		8	0.04582997
		9	0.04049060
		10	0.03626506
		11	0.03283793
		12	0.03000245
		13	0.02761764
		14	0.02558398
		15	0.02382924
	3	3	0.14255110
		4	0.10327381
		5	0.08094269
		6	0.06654663
		7	0.05649663
		8	0.04908343
		9	0.04338988
		10	0.03887988
		11	0.03521917
		12	0.03218850
		13	0.02963811
		14	0.02746222
	4	4	0.11057597
		5	0.08684393
		6	0.07150070
		7	0.06076687
		8	0.05283643
		9	0.04673781
		10	0.04190191
		11	0.03797327
		12	0.03471842
		13	0.03197768
	5	5	0.09368911
		6	0.07726068
		7	0.06574073
		8	0.05721411
		9	0.05064759
		10	0.04543455
		11	0.04119538
		12	0.03768036
	6	6	0.08404266
		7	0.07160902
		8	0.06238742
		9	0.05527411
		10	0.04961947
		11	0.04501605
	7	7	0.07863887

N	I	J	VALUE
16	7	8	0.06859624
		9	0.06083522
		10	0.05465622
	8	8	0.07618816
		9	0.06764725
17	1	1	0.51841640
		2	0.20533756
		3	0.12627803
		4	0.09096069
		5	0.07103303
		6	0.05825270
		7	0.04935415
		8	0.04282639
		9	0.03781649
		10	0.03385524
		11	0.03064477
		12	0.02799018
		13	0.02575867
		14	0.02385659
		15	0.02221603
		16	0.02078653
		17	0.01952983
	2	2	0.21564020
		3	0.13321911
		4	0.09620002
		5	0.07524270
		6	0.06177175
		7	0.05238762
		8	0.04547683
		9	0.04017595
		10	0.03598136
		11	0.03257958
		12	0.02976531
		13	0.02739847
		14	0.02538025
		15	0.02363893
		16	0.02212117
	3	3	0.14100026
		4	0.10209447
		5	0.07999029
		6	0.06576271
		7	0.05580810
		8	0.04847849
		9	0.04285038
		10	0.03839301
		11	0.03477554

TABLE 1

N	I	J	VALUE
22	6	13	0.03293294
		14	0.03052636
		15	0.02844755
		16	0.02663401
		17	0.02503782
	7	7	0.06627589
		8	0.05768196
		9	0.05106310
		10	0.04580822
		11	0.04153485
		12	0.03799132
		13	0.03500535
		14	0.03245470
		15	0.03025083
		16	0.02832727
	8	8	0.06142350
		9	0.05440810
		10	0.04883310
		11	0.04429578
		12	0.04053088
		13	0.03735642
		14	0.03464364
		15	0.03229842
	9	9	0.05822491
		10	0.05228766
		11	0.04745127
		12	0.04343519
		13	0.04004683
		14	0.03714946
	10	10	0.05627087
		11	0.05109269
		12	0.04678920
		13	0.04315569
	11	11	0.05534209
		12	0.05070639
23	1	1	0.51350726
		2	0.20284008
		3	0.12459827
		4	0.08969409
		5	0.07001607
		6	0.05740303
		7	0.04863442
		8	0.04218690
		9	0.03724735

N	I	J	VALUE
23	1	10	0.03334250
		11	0.03017823
		12	0.02756222
		13	0.02536338
		14	0.02348934
		15	0.02187309
		16	0.02046490
		17	0.01922701
		18	0.01813030
		19	0.01715193
		20	0.01627373
		21	0.01548107
		22	0.01476202
		23	0.01410680
	2	2	0.21017174
		3	0.12952350
		4	0.09340518
		5	0.07299422
		6	0.05989039
		7	0.05077006
		8	0.04405805
		9	0.03891237
		10	0.03484232
		11	0.03154270
		12	0.02881376
		13	0.02651927
		14	0.02456316
		15	0.02287573
		16	0.02140520
		17	0.02011228
		18	0.01896663
		19	0.01794445
		20	0.01702680
		21	0.01619842
		22	0.01544692
	3	3	0.13487011
		4	0.09744386
		5	0.07624076
		6	0.06260526
		7	0.05310322
		8	0.04610376
		9	0.04073378
		10	0.03648382
		11	0.03303668
		12	0.03018455
		13	0.02778567
		14	0.02573994
		15	0.02397477
		16	0.02243612

N	I	J	VALUE
23	3	17	0.02108304
		18	0.01988387
		19	0.01881376
		20	0.01785292
		21	0.01698547
	4	4	0.10185629
		5	0.07979415
		6	0.06558061
		7	0.05566277
		8	0.04834975
		9	0.04273479
		10	0.03828812
		11	0.03467952
		12	0.03169252
		13	0.02917922
		14	0.02703530
		15	0.02518477
		16	0.02357142
		17	0.02215229
		18	0.02089436
		19	0.01977158
		20	0.01876333
	5	5	0.08370057
		6	0.06885616
		7	0.05848359
		8	0.05082708
		9	0.04494341
		10	0.04028075
		11	0.03649475
		12	0.03335936
		13	0.03072023
		14	0.02846796
		15	0.02652364
		16	0.02482775
		17	0.02333585
		18	0.02201305
		19	0.02083224
	6	6	0.07248019
		7	0.06160811
		8	0.05357363
		9	0.04739388
		10	0.04249295
		11	0.03851099
		12	0.03521167
		13	0.03243317
		14	0.03006140
		15	0.02801270
		16	0.02622580

N	I	J	VALUE
23	6	17	0.02465302
		18	0.02325839
	7	7	0.06508853
		8	0.05663607
		9	0.05012839
		10	0.04496321
		11	0.04076377
		12	0.03728221
		13	0.03434898
		14	0.03184368
		15	0.02967956
		16	0.02779055
		17	0.02612798
	8	8	0.06007256
		9	0.05319959
		10	0.04773968
		11	0.04329733
		12	0.03961215
		13	0.03650555
		14	0.03385134
		15	0.03155684
		16	0.02955424
	9	9	0.05667407
		10	0.05088326
		11	0.04616788
		12	0.04225349
		13	0.03895182
		14	0.03612919
		15	0.03368863
	10	10	0.05447227
		11	0.04944766
		12	0.04527339
		13	0.04175017
		14	0.03873656
	11	11	0.05323123
		12	0.04875974
		13	0.04498287
	12	12	0.05283000
24	1	1	0.51293266
		2	0.20254862
		3	0.12440255
		4	0.08954664
		5	0.06989776

TABLE 1

N	I	J	VALUE
24	1	6	0.05730423
		7	0.04854959
		8	0.04211258
		9	0.03718123
		10	0.03328293
		11	0.03012405
		12	0.02751251
		13	0.02531748
		14	0.02344670
		15	0.02183329
		16	0.02042755
		17	0.01919185
		18	0.01809710
		19	0.01712047
		20	0.01624383
		21	0.01545258
		22	0.01473483
		23	0.01408079
		24	0.01348232
	2	2	0.20954371
		3	0.12910011
		4	0.09308546
		5	0.07273726
		6	0.05967555
		7	0.05058545
		8	0.04389621
		9	0.03876828
		10	0.03471247
		11	0.03142453
		12	0.02870533
		13	0.02641910
		14	0.02447008
		15	0.02278881
		16	0.02132367
		17	0.02003551
		18	0.01889410
		19	0.01787570
		20	0.01696146
		21	0.01613618
		22	0.01538747
		23	0.01470512
	3	3	0.13418085
		4	0.09692208
		5	0.07582069
		6	0.06225360
		7	0.05280075
		8	0.04583839
		9	0.04049738
		10	0.03627068
		11	0.03284262
		12	0.03000644
		13	0.02762108
		14	0.02558696
		15	0.02383188
		16	0.02230203
		17	0.02095678
		18	0.01976454
		19	0.01870065
		20	0.01774543
		21	0.01688305
		22	0.01610060
	4	4	0.10109638
		5	0.07918127
		6	0.06506687
		7	0.05522045
		8	0.04796135
		9	0.04238857
		10	0.03797581
		11	0.03439505
		12	0.03143133
		13	0.02893776
		14	0.02681082
		15	0.02497499
		16	0.02337468
		17	0.02196688
		18	0.02071913
		19	0.01960547
		20	0.01860541
		21	0.01770248
	5	5	0.08285857
		6	0.06814936
		7	0.05787439
		8	0.05029169
		9	0.04446585
		10	0.03984968
		11	0.03610192
		12	0.03299849
		13	0.03038654
		14	0.02815763
		15	0.02623369
		16	0.02455533
		17	0.02307940
		18	0.02177052
		19	0.02060231
		20	0.01955288
	6	6	0.07154203
		7	0.06079856
		8	0.05286152
		9	0.04675818
		10	0.04191880
		11	0.03798749
		12	0.03473060
		13	0.03198808
		14	0.02964739
		15	0.02762547
		16	0.02586260
		17	0.02431037
		18	0.02293465
		19	0.02170593
	7	7	0.06403676
		8	0.05570996
		9	0.04930098
		10	0.04421540
		11	0.04008152
		12	0.03665491
		13	0.03376846
		14	0.03130330
		15	0.02917439
		16	0.02731547
		17	0.02568069
		18	0.02422966
	8	8	0.05888519
		9	0.05213782
		10	0.04677933
		11	0.04242063
		12	0.03880565
		13	0.03575876
		14	0.03315608
		15	0.03090623
		16	0.02894361
		17	0.02721426
	9	9	0.05532312
		10	0.04966036
		11	0.04505072
		12	0.04122514
		13	0.03799916
		14	0.03524172
		15	0.03285817
		16	0.03077584
	10	10	0.05292144
		11	0.04802983
		12	0.04396741
		13	0.04053958
		14	0.03760833
24	10	15	0.03507265
	11	11	0.05143263
		12	0.04710178
		13	0.04344501
		14	0.04031607
	12	12	0.05071914
		13	0.04680034
25	1	1	0.51240495
		2	0.20228110
		3	0.12422295
		4	0.08941137
		5	0.06978923
		6	0.05721360
		7	0.04847180
		8	0.04204442
		9	0.03712058
		10	0.03322831
		11	0.03007436
		12	0.02746695
		13	0.02527539
		14	0.02340760
		15	0.02179678
		16	0.02039332
		17	0.01915962
		18	0.01806664
		19	0.01709161
		20	0.01621641
		21	0.01542647
		22	0.01470990
		23	0.01405694
		24	0.01345947
		25	0.01291072
	2	2	0.20896911
		3	0.12871291
		4	0.09279317
		5	0.07250240
		6	0.05947921
		7	0.05041676
		8	0.04374833
		9	0.03863663
		10	0.03459384
		11	0.03131657
		12	0.02860629
		13	0.02632760
		14	0.02438506
		15	0.02270941

TABLE 1

N	I	J	VALUE
25	2	16	0.02124920
		17	0.01996538
		18	0.01882785
		19	0.01781291
		20	0.01690178
		21	0.01607931
		22	0.01533317
		23	0.01465314
		24	0.01403091
	3	3	0.13355283
		4	0.09644684
		5	0.07543821
		6	0.06193348
		7	0.05252545
		8	0.04559688
		9	0.04028227
		10	0.03607674
		11	0.03266606
		12	0.02984439
		13	0.02747135
		14	0.02544778
		15	0.02370190
		16	0.02218007
		17	0.02084197
		18	0.01965600
		19	0.01859781
		20	0.01764769
		21	0.01679000
		22	0.01601167
		23	0.01530246
	4	4	0.10040712
		5	0.07862557
		6	0.06460118
		7	0.05481959
		8	0.04760944
		9	0.04207491
		10	0.03769289
		11	0.03413737
		12	0.03119477
		13	0.02871907
		14	0.02660751
		15	0.02478502
		16	0.02319650
		17	0.02179887
		18	0.02056053
		19	0.01945499
		20	0.01846244
		21	0.01756600
		22	0.01675307

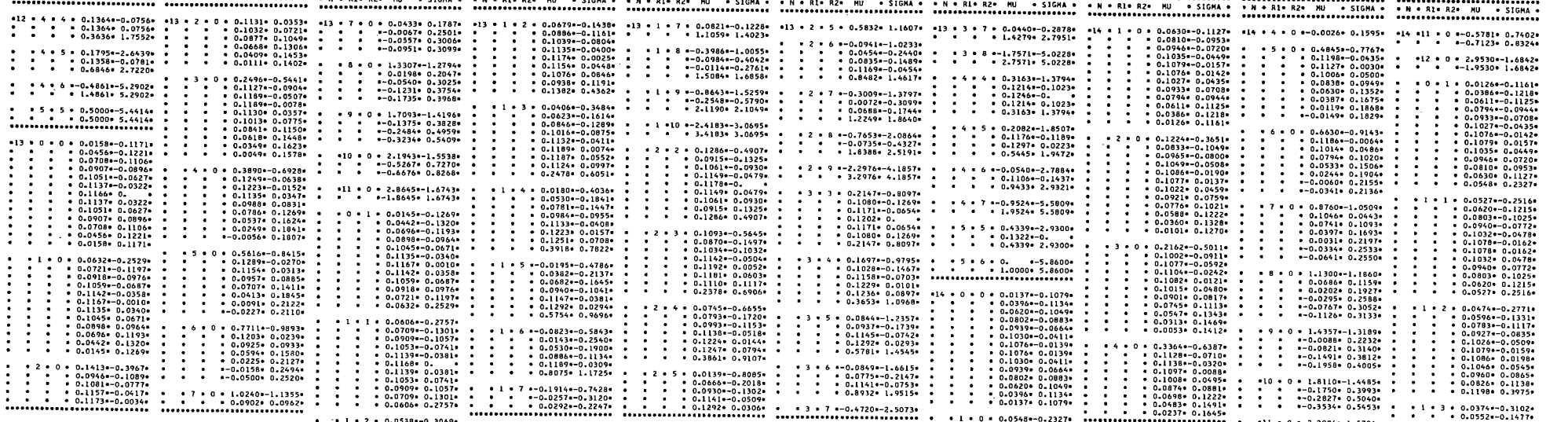
N	I	J	VALUE
25	5	5	0.08209866
		6	0.06751169
		7	0.05732493
		8	0.04980892
		9	0.04403528
		10	0.03946111
		11	0.03574786
		12	0.03267328
		13	0.03008589
		14	0.02787799
		15	0.02597234
		16	0.02430990
		17	0.02284842
		18	0.02155191
		19	0.02039534
		20	0.01935612
		21	0.01841792
	6	6	0.07070003
		7	0.06007223
		8	0.05222279
		9	0.04618812
		10	0.04140402
		11	0.03751818
		12	0.03429938
		13	0.03158911
		14	0.02927641
		15	0.02727848
		16	0.02553754
		17	0.02400330
		18	0.02264491
		19	0.02143061
		20	0.02034056
	7	7	0.06309859
		8	0.05488417
		9	0.04856340
		10	0.04354893
		11	0.03947361
		12	0.03609605
		13	0.03325137
		14	0.03082194
		15	0.02872440
		16	0.02689194
		17	0.02528217
		18	0.02385170
		19	0.02257698
	8	8	0.05783342
		9	0.05119761
		10	0.04592918

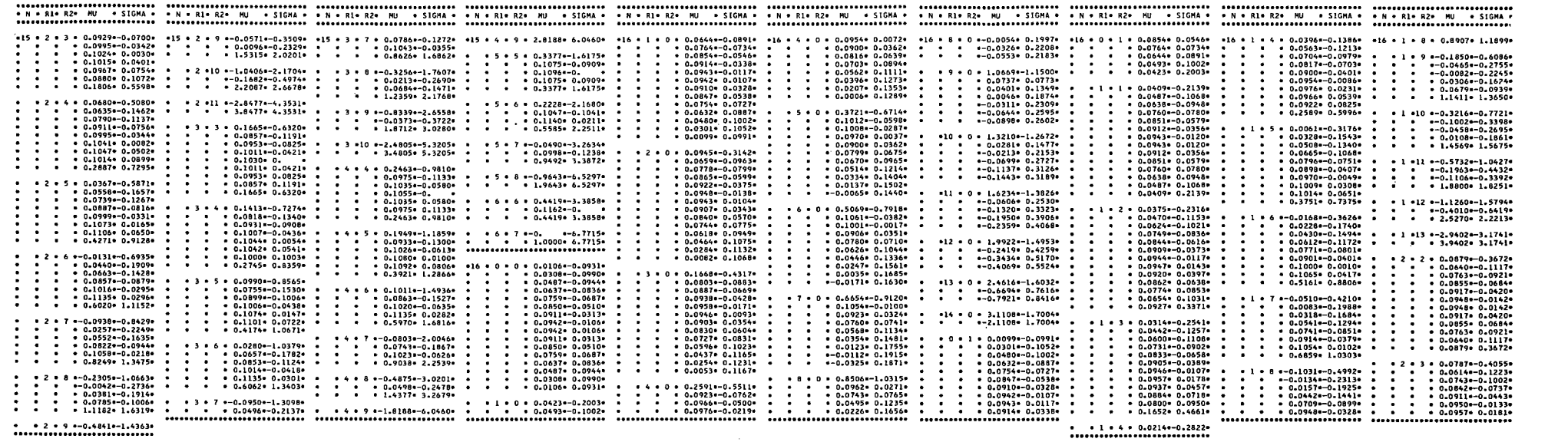
N	I	J	VALUE
25	8	11	0.04164471
		12	0.03809200
		13	0.03509602
		14	0.03254106
		15	0.03033066
		16	0.02840395
		17	0.02670357
		18	0.02519927
	9	9	0.05413577
		10	0.04858591
		11	0.04406946
		12	0.04032212
		13	0.03716280
		14	0.03446272
		15	0.03212927
		16	0.03008991
		17	0.02829789
	10	10	0.05157049
		11	0.04679517
		12	0.04283051
		13	0.03948599
		14	0.03662669
		15	0.03415355
		16	0.03199507
	11	11	0.04988180
		12	0.04567276
		13	0.04211994
		14	0.03908077
		15	0.03645141
	12	12	0.04892054
		13	0.04513147
		14	0.04188829
	13	13	0.04860828

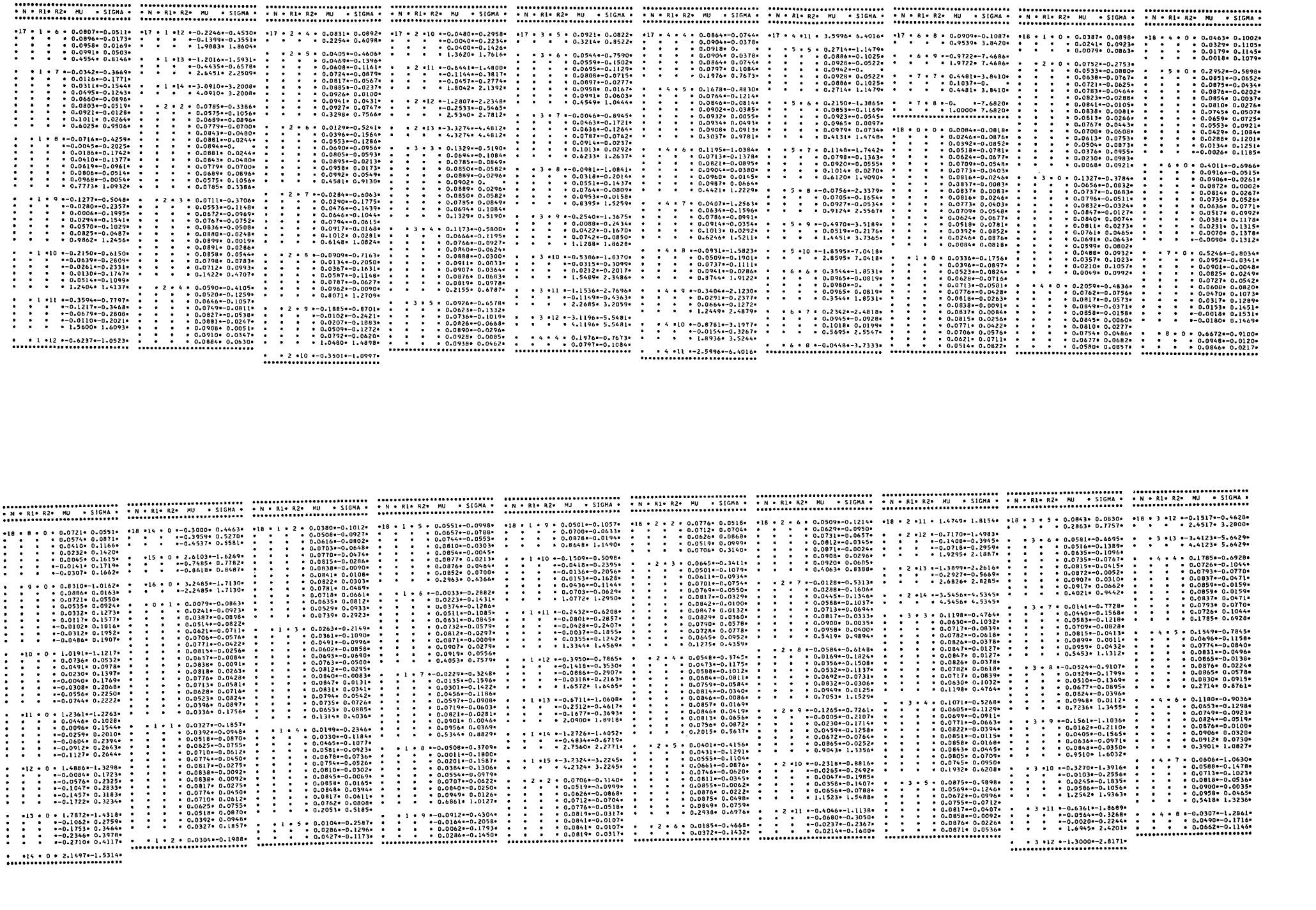
TABLE 2

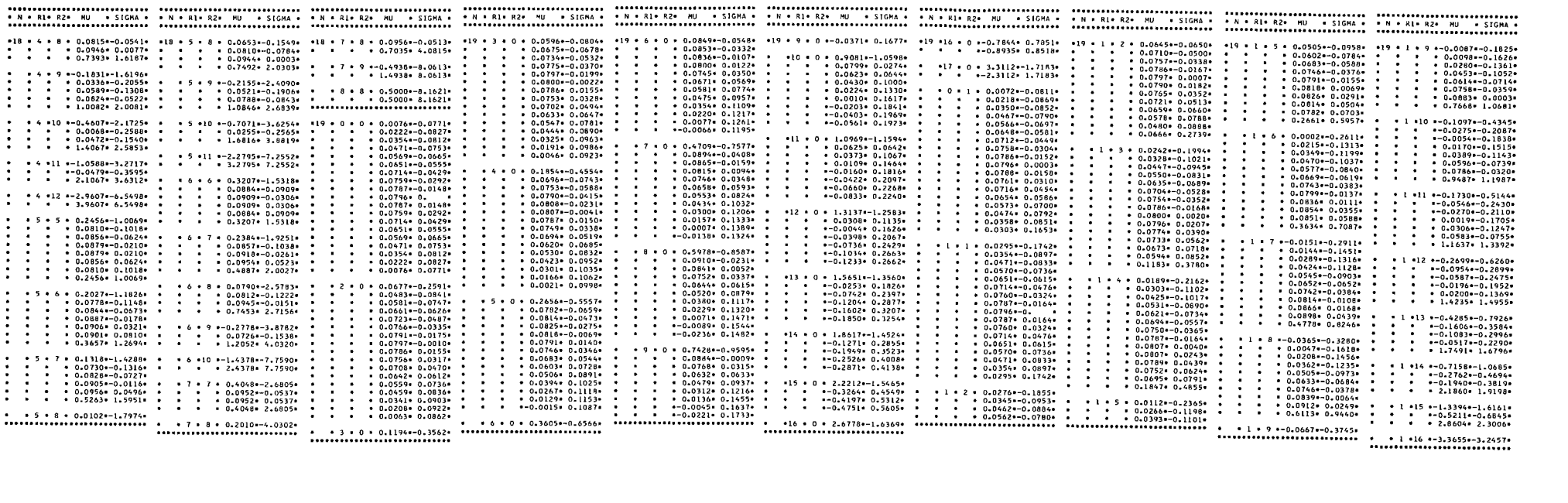
THE COEFFICIENTS OF THE BEST LINEAR UNBIASED ESTIMATES OF THE MEAN AND STANDARD DEVIATION IN CENSORED SAMPLES UP TO SIZE TWENTY-FIVE FROM A LOGISTIC DISTRIBUTION

N	R1	R2	MU	SIGMA
2	0	0	0.5000	-0.9069
			0.5000	0.9069
3	0	0	0.2500	-0.6046
			0.5000	0.
			0.2500	0.6046
	1	0	1.0000	-1.2092
			0.	1.2092
4	0	0	0.1480	-0.4404
			0.3520	-0.1991
			0.3520	0.1991
			0.1480	0.4404
	1	0	0.5970	-0.9281
			0.3303	0.2638
			0.0727	0.6643
	2	0	1.3750	-1.3603
			-0.3750	1.3603
	0	1	0.0727	-0.6643
			0.3303	-0.2638
			0.5970	0.9281
	0	2	-0.3750	-1.3603
			1.3750	1.3603
	1	1	0.5000	-1.8138
			0.5000	1.8138
5	0	0	0.0976	-0.3426
			0.2502	-0.2318
			0.3044	-0.
			0.2502	0.2318
			0.0976	0.3426
	1	0	0.3935	-0.7349
			0.3099	-0.0193
			0.2319	0.2960
			0.0647	0.4583
	2	0	0.8969	-1.1156
5	2	0	0.1718	0.4082
			-0.0687	0.7073
	3	0	1.6667	-1.4510
			-0.6667	1.4510
	0	1	0.0647	-0.4583
			0.2319	-0.2960
			0.3099	0.0193
			0.3935	0.7349
	1	1	0.3437	-1.0883
			0.3127	-0.
			0.3437	1.0883
	1	2	-0.	-2.1766
			1.0000	2.1766
	2	1	1.0000	-2.1766
			-0.	2.1766
6	0	0	0.0692	-0.2788
			0.1847	-0.2241
			0.2460	-0.0827
			0.2460	0.0827
			0.1847	0.2241
			0.0692	0.2788
	1	0	0.2787	-0.6024
			0.2536	-0.1130
			0.2435	0.0930
			0.1724	0.2738
			0.0519	0.3486
	2	0	0.6304	-0.9275
			0.2420	0.0962
			0.1350	0.3545
			-0.0074	0.4767
	3	0	1.1484	-1.2374
			0.0367	0.4992
			-0.1850	0.7381
	4	0	1.9028	-1.5115
			-0.9028	1.5115
	0	1	0.0519	-0.3486
6	0	1	0.1724	-0.2738
			0.2435	-0.0930
			0.2536	0.1130
			0.2787	0.6024
	1	1	0.2500	-0.7950
			0.2500	-0.1369
			0.2500	0.1369
			0.2500	0.7950
	1	2	0.1219	-1.2023
			0.2409	-0.1659
			0.6372	1.3681
	1	3	-0.4444	-2.4184
			1.4444	2.4184
	2	2	0.5000	-2.7207
			0.5000	2.7207
7	0	0	0.0517	-0.2342
			0.1414	-0.2068
			0.1982	-0.1160
			0.2174	-0.
			0.1982	0.1160
			0.1414	0.2068
			0.0517	0.2342
	1	0	0.2078	-0.5076
			0.2043	-0.1438
			0.2189	-0.0066
			0.1944	0.1331
			0.1331	0.2443
			0.0415	0.2805
	2	0	0.4677	-0.7874
			0.2270	-0.0264
			0.1861	0.1536
			0.1094	0.3022
			0.0097	0.3580
	3	0	0.8421	-1.0618
			0.1729	0.1757
			0.0549	0.3940
			-0.0699	0.4921
	4	0	1.3614	-1.3229
7	4	0	-0.0783	0.5619
			-0.2831	0.7610
	5	0	2.1000	-1.5547
			-1.1000	1.5547
	0	1	0.0415	-0.2805
			0.1331	-0.2443
			0.1944	-0.1331
			0.2189	0.0066
			0.2043	0.1438
			0.2078	0.5076
	1	1	0.1899	-0.6285
			0.2002	-0.1720
			0.2199	0.
			0.2002	0.1720
			0.1899	0.6285
	1	2	0.1242	-0.8458
			0.1877	-0.2133
			0.2271	0.0239
			0.4610	1.0353
	1	3	-0.0719	-1.2862
			0.1581	-0.2797
			0.9137	1.5659
	1	4	-0.8333	-2.5911
			1.8333	2.5911
	2	2	0.3847	-1.5547
			0.2306	-0.
			0.3847	1.5547
	2	3	0.	-3.1094
			1.0000	3.1094
8	0	0	0.0401	-0.2015
			0.1115	-0.1885
			0.1615	-0.1277
			0.1869	-0.0448
			0.1869	0.0448
			0.1615	0.1277
			0.1115	0.1885
			0.0401	0.2015
	1	0	0.1609	-0.4371
8	1	0	0.1661	-0.1510
			0.1892	-0.0562
			0.1863	0.0478
			0.1581	0.1450
			0.1058	0.2172
			0.0336	0.2342
	2	0	0.3613	-0.6809
			0.1977	-0.0792
			0.1866	0.0470
			0.1498	0.1676
			0.0901	0.2597
			0.0146	0.2858
	3	0	0.6458	-0.9239
			0.1915	0.0378
			0.1345	0.1963
			0.0567	0.3227
			-0.0285	0.3670
	4	0	1.0294	-1.1608
			0.1084	0.2337
			-0.0132	0.4226
			-0.1247	0.5045
	5	0	1.5449	-1.3862
			-0.1774	0.6078
			-0.3675	0.7784
	6	0	2.2687	-1.5871
			-1.2687	1.5871
	0	1	0.0336	-0.2342
			0.1058	-0.2172
			0.1581	-0.1450
			0.1863	-0.0478
			0.1892	0.0562
			0.1661	0.1510
			0.1609	0.4371
	1	1	0.1491	-0.5196
			0.1625	-0.1761
			0.1884	-0.0620
			0.1884	0.0620
			0.1625	0.1761
			0.1491	0.5196
	1	2	0.1103	-0.6550
8	1	2	0.1521	-0.2127
			0.1875	-0.0648
			0.1970	0.0921
			0.3531	0.8404
	1	3	0.0128	-0.8868
			0.1290	-0.2676
			0.1899	-0.0593
			0.6683	1.2138
	1	4	-0.2423	-1.3502
			0.0765	-0.3629
			1.1658	1.7131
	1	5	-1.1750	-2.7207
			2.1750	2.7207
	2	2	0.3054	-1.1237
			0.1946	-0.1066
			0.1946	0.1066
			0.3054	1.1237
	2	3	0.1496	-1.6969
			0.1907	-0.1206
			0.6596	1.8175
	2	4	-0.4688	-3.4009
			1.4688	3.4009
	3	3	0.5000	-3.6276
			0.5000	3.6276
9	0	0	0.0320	-0.1765
			0.0901	-0.1715
			0.1335	-0.1295
			0.1600	-0.0689
			0.1689	0.
			0.1600	0.0689
			0.1335	0.1295
			0.0901	0.1715
			0.0320	0.1765
	1	0	0.1284	-0.3828
			0.1370	-0.1486
			0.1622	-0.0809
			0.1694	-0.0030
9	1	0	0.1588	0.0756
			0.1307	0.1452
			0.0860	0.1939
			0.0276	0.2007
	2	0	0.2877	-0.5981
			0.1693	-0.1021
			0.1722	-0.0112
			0.1566	0.0821
			0.1237	0.1659
			0.0752	0.2261
			0.0153	0.2373
	3	0	0.5120	-0.8146
			0.1804	-0.0282
			0.1543	0.0868
			0.1108	0.1928
			0.0533	0.2716
			-0.0107	0.2915
	4	0	0.8090	-1.0284
			0.1542	0.0869
			0.0885	0.2282
			0.0114	0.3383
			-0.0632	0.3749
	5	0	1.1955	-1.2367
			0.0496	0.2777
			-0.0720	0.4443
			-0.1731	0.5147
	6	0	1.7053	-1.4351
			-0.2639	0.6429
			-0.4414	0.7922
	7	0	2.4159	-1.6123
			-1.4159	1.6123
	0	1	0.0276	-0.2007
			0.0860	-0.1939
			0.1307	-0.1452
			0.1588	-0.0756
			0.1694	0.0030
			0.1622	0.0809
			0.1370	0.1486
			0.1284	0.3828
	1	1	0.1202	-0.4425
9	1	1	0.1341	-0.1698
			0.1608	-0.0906
			0.1698	0.
			0.1608	0.0906
			0.1341	0.1698
			0.1202	0.4425
	1	2	0.0952	-0.5347
			0.1259	-0.1998
			0.1579	-0.1016
			0.1723	0.0091
			0.1683	0.1179
			0.2805	0.7091
	1	3	0.0383	-0.6783
			0.1089	-0.2427
			0.1534	-0.1130
			0.1804	0.0296
			0.5190	1.0043
	1	4	-0.0866	-0.9201
			0.0750	-0.3083
			0.1482	-0.1230
			0.8634	1.3514
	1	5	-0.3936	-1.4005
			-0.0004	-0.4264
			1.3940	1.8269
	1	6	-1.4778	-2.8215
			2.4778	2.8215
	2	2	0.2485	-0.8888
			0.1645	-0.1389
			0.1739	0.
			0.1645	0.1389
			0.2485	0.8888
	2	3	0.1628	-1.1956
			0.1565	-0.1677
			0.1807	0.0243
			0.5001	1.3390
	2	4	-0.0662	-1.8086
			0.1397	-0.2125
			0.9265	2.0211
	2	5	-0.9000	-3.6276
9	2	5	1.9000	3.6276
	3	3	0.4080	-2.0153
			0.1840	-0.
			0.4080	2.0153
	3	4	-0.	-4.0307
			1.0000	4.0307
10	0	0	0.0261	-0.1568
			0.0743	-0.1565
			0.1119	-0.1268
			0.1374	-0.0815
			0.1503	-0.0280
			0.1503	0.0280
			0.1374	0.0815
			0.1119	0.1268
			0.0743	0.1565
			0.0261	0.1568
	1	0	0.1048	-0.3400
			0.1145	-0.1425
			0.1393	-0.0928
			0.1512	-0.0334
			0.1501	0.0292
			0.1361	0.0893
			0.1096	0.1404
			0.0713	0.1743
			0.0230	0.1755
	2	0	0.2347	-0.5321
			0.1450	-0.1111
			0.1544	-0.0438
			0.1503	0.0283
			0.1334	0.0982
			0.1041	0.1585
			0.0636	0.1993
			0.0147	0.2026
	3	0	0.4164	-0.7265
			0.1622	-0.0616
			0.1524	0.0237
			0.1291	0.1079
			0.0938	0.1818
			0.0485	0.2336
			-0.0023	0.2412
	4	0	0.6543	-0.9202
10	4	0	0.1588	0.0125
			0.1236	0.1175
			0.0764	0.2121
			0.0212	0.2811
			-0.0343	0.2969
	5	0	0.9576	-1.1110
			0.1177	0.1257
			0.0473	0.2530
			-0.0282	0.3506
			-0.0946	0.3817
	6	0	1.3439	-1.2967
			-0.0039	0.3124
			-0.1236	0.4613
			-0.2164	0.5230
	7	0	1.8474	-1.4739
			-0.3404	0.6705
			-0.5069	0.8034
	8	0	2.5461	-1.6324
			-1.5461	1.6324
	0	1	0.0230	-0.1755
			0.0713	-0.1743
			0.1096	-0.1404
			0.1361	-0.0893
			0.1501	-0.0292
			0.1512	0.0334
			0.1393	0.0928
			0.1145	0.1425
			0.1048	0.3400
	1	1	0.0989	-0.3849
			0.1122	-0.1600
			0.1379	-0.1032
			0.1509	-0.0355
			0.1509	0.0355
			0.1379	0.1032
			0.1122	0.1600
			0.0989	0.3849
	1	2	0.0818	-0.4515
			0.1059	-0.1845
			0.1346	-0.1160
			0.1509	-0.0356
10	1	2	0.1541	0.0479
			0.1439	0.1262
			0.2288	0.6135
	1	3	0.0454	-0.5492
			0.0934	-0.2180
			0.1289	-0.1315
			0.1523	-0.0318
			0.1623	0.0699
			0.4177	0.8606
	1	4	-0.0270	-0.6984
			0.0702	-0.2658
			0.1198	-0.1502
			0.1579	-0.0202
			0.6791	1.1346
	1	5	-0.1760	-0.9473
			0.0258	-0.3401
			0.1059	-0.1733
			1.0443	1.4608
	1	6	-0.5290	-1.4410
			-0.0718	-0.4766
			1.6007	1.9176
	1	7	-1.7486	-2.9021
			2.7486	2.9021
	2	2	0.2062	-0.7379
			0.1402	-0.1466
			0.1536	-0.0506
			0.1536	0.0506
			0.1402	0.1466
			0.2062	0.7379
	2	3	0.1524	-0.9306
			0.1324	-0.1744
			0.1538	-0.0498
			0.1615	0.0791
			0.3999	1.0758
	2	4	0.0320	-1.2544
			0.1173	-0.2151
			0.1571	-0.0409
			0.6936	1.5104
	2	5	-0.2638	-1.8985
10	2	5	0.0852	-0.2849
			1.1786	2.1834
	2	6	-1.2950	-3.8090
			2.2950	3.8090
	3	3	0.3400	-1.4421
			0.1600	-0.0882
			0.1600	0.0882
			0.3400	1.4421
	3	4	0.1673	-2.1745
			0.1585	-0.0948
			0.6742	2.2694
	3	5	-0.4800	-4.3531
			1.4800	4.3531
	4	4	0.5000	-4.5345
			0.5000	4.5345
11	0	0	0.0218	-0.1410
			0.0623	-0.1434
			0.0950	-0.1220
			0.1188	-0.0875
			0.1332	-0.0455
			0.1380	0.
			0.1332	0.0455
			0.1188	0.0875
			0.0950	0.1220
			0.0623	0.1434
			0.0218	0.1410
	1	0	0.0873	-0.3053
			0.0970	-0.1350
			0.1204	-0.0977
			0.1341	-0.0517
			0.1382	-0.0016
			0.1327	0.0487
			0.1176	0.0953
			0.0932	0.1337
			0.0600	0.1579
			0.0195	0.1557
	2	0	0.1952	-0.4784
			0.1248	-0.1133
11	2	0	0.1371	-0.0622
			0.1394	-0.0058
			0.1319	0.0514
			0.1149	0.1047
			0.0888	0.1492
			0.0544	0.1777
			0.0135	0.1766
	3	0	0.3457	-0.6545
			0.1438	-0.0786
			0.1427	-0.0138
			0.1313	0.0527
			0.1104	0.1157
			0.0807	0.1690
			0.0435	0.2042
			0.0018	0.2053
	4	0	0.5411	-0.8308
			0.1502	-0.0280
			0.1320	0.0516
			0.1038	0.1282
			0.0674	0.1943
			0.0248	0.2398
			-0.0192	0.2451
	5	0	0.7869	-1.0057
			0.1358	0.0457
			0.0948	0.1420
			0.0458	0.2274
			-0.0072	0.2889
			-0.0561	0.3018
	6	0	1.0931	-1.1778
			0.0830	0.1571
			0.0103	0.2728
			-0.0632	0.3605
			-0.1232	0.3875
	7	0	1.4775	-1.3454
			-0.0525	0.3404
			-0.1696	0.4751
			-0.2554	0.5300
	8	0	1.9746	-1.5055
			-0.4088	0.6929
			-0.5657	0.8125
	9	0	2.6627	-1.6489
11	9	0	-1.6627	1.6489
	0	1	0.0195	-0.1557
			0.0600	-0.1579
			0.0932	-0.1337
			0.1176	-0.0953
			0.1327	-0.0487
			0.1382	0.0016
			0.1341	0.0517
			0.1204	0.0977
			0.0970	0.1350
			0.0873	0.3053
	1	1	0.0829	-0.3403
			0.0952	-0.1496
			0.1191	-0.1076
			0.1336	-0.0560
			0.1384	0.
			0.1336	0.0560
			0.1191	0.1076
			0.0952	0.1496
			0.0829	0.3403
	1	2	0.0707	-0.3905
			0.0903	-0.1695
			0.1161	-0.1202
			0.1326	-0.0602
			0.1395	0.0045
			0.1366	0.0685
			0.1238	0.1268
			0.1904	0.5406
	1	3	0.0458	-0.4611
			0.0810	-0.1962
			0.1106	-0.1357
			0.1314	-0.0634
			0.1427	0.0135
			0.1437	0.0887
			0.3448	0.7541
	1	4	-0.0005	-0.5623
			0.0644	-0.2324
			0.1017	-0.1551
			0.1309	-0.0644
			0.1504	0.0303
			0.5531	0.9840
	1	5	-0.0866	-0.7155
11	1	5	0.0352	-0.2843
			0.0878	-0.1800
			0.1330	-0.0608
			0.8306	1.2405
	1	6	-0.2570	-0.9700
			-0.0192	-0.3657
			0.0649	-0.2141
			1.2113	1.5498
	1	7	-0.6512	-1.4744
			-0.1377	-0.5172
			1.7889	1.9915
	1	8	-1.9929	-2.9680
			2.9929	2.9680
	2	2	0.1740	-0.6316
			0.1205	-0.1448
			0.1354	-0.0756
			0.1403	0.
			0.1354	0.0756
			0.1205	0.1448
			0.1740	0.6316
	2	3	0.1374	-0.7643
			0.1139	-0.1690
			0.1334	-0.0828
			0.1430	0.0100
			0.1425	0.1014
			0.3298	0.9047
	2	4	0.0637	-0.9663
			0.1017	-0.2024
			0.1309	-0.0895
			0.1504	0.0300
			0.5533	1.2283
	2	5	-0.0881	-1.3033
			0.0789	-0.2530
			0.1290	-0.0938
			0.8801	1.6501
	2	6	-0.4449	-1.9723
			0.0306	-0.3435
			1.4143	2.3159
	4	4	0.4232	-2.4734
11	4	4	0.1537	-0.
			0.4232	2.4734
	4	5	0.	-4.9467
			1.0000	4.9467
12	0	0	0.0184	-0.1280
			0.0529	-0.1320
			0.0816	-0.1164
			0.1035	-0.0897
			0.1181	-0.0562
			0.1255	-0.0191
			0.1255	0.0191
			0.1181	0.0562
			0.1035	0.0897
			0.0816	0.1164
			0.0529	0.1320
			0.0184	0.1280
	1	0	0.0738	-0.2768
			0.0832	-0.1272
			0.1048	-0.0987
			0.1190	-0.0625
			0.1259	-0.0221
			0.1254	0.0197
			0.1175	0.0603
			0.1024	0.0970
			0.0802	0.1265
			0.0512	0.1439
			0.0167	0.1399
	2	0	0.1650	-0.4340
			0.1083	-0.1119
			0.1216	-0.0724
			0.1274	-0.0276
			0.1256	0.0191
			0.1164	0.0647
			0.1000	0.1062
			0.0766	0.1397
			0.0469	0.1600
			0.0123	0.1564
	3	0	0.2917	-0.5946
			0.1272	-0.0870
			0.1308	-0.0367
			0.1265	0.0164
12	3	0	0.1148	0.0689
			0.0958	0.1170
			0.0703	0.1564
			0.0390	0.1810
			0.0039	0.1785
	4	0	0.4555	-0.7561
			0.1377	-0.0508
			0.1293	0.0107
			0.1131	0.0724
			0.0896	0.1297
			0.0600	0.1775
			0.0255	0.2085
			-0.0107	0.2082
	5	0	0.6595	-0.9170
			0.1358	0.0001
			0.1119	0.0743
			0.0807	0.1445
			0.0438	0.2044
			0.0035	0.2450
			-0.0351	0.2487
	6	0	0.9099	-1.0763
			0.1127	0.0731
			0.0681	0.1620
			0.0183	0.2398
			-0.0327	0.2953
			-0.0764	0.3061
	7	0	1.2170	-1.2330
			0.0504	0.1830
			-0.0233	0.2890
			-0.0947	0.3686
			-0.1494	0.3924
	8	0	1.5987	-1.3857
			-0.0968	0.3635
			-0.2109	0.4864
			-0.2909	0.5359
	9	0	2.0895	-1.5317
			-0.4705	0.7114
			-0.6190	0.8202
	10	0	2.7682	-1.6626
			-1.7682	1.6626
	0	1	0.0167	-0.1399
12	0	1	0.0512	-0.1439
			0.0802	-0.1265
			0.1024	-0.0970
			0.1175	-0.0603
			0.1254	-0.0197
			0.1259	0.0221
			0.1190	0.0625
			0.1048	0.0987
			0.0832	0.1272
			0.0738	0.2768
	1	1	0.0704	-0.3048
			0.0817	-0.1395
			0.1037	-0.1078
			0.1184	-0.0677
			0.1258	-0.0230
			0.1258	0.0230
			0.1184	0.0677
			0.1037	0.1078
			0.0817	0.1395
			0.0704	0.3048
	1	2	0.0614	-0.3438
			0.0779	-0.1559
			0.1010	-0.1193
			0.1170	-0.0735
			0.1258	-0.0228
			0.1272	0.0293
			0.1211	0.0794
			0.1074	0.1237
			0.1611	0.4829
	1	3	0.0437	-0.3971
			0.0708	-0.1774
			0.0962	-0.1337
			0.1150	-0.0796
			0.1266	-0.0204
			0.1307	0.0398
			0.1270	0.0970
			0.2901	0.6714
	1	4	0.0121	-0.4702
			0.0585	-0.2057
			0.0885	-0.1515
			0.1124	-0.0857
			0.1291	-0.0146
			0.1380	0.0567
12	1	4	0.4614	0.8710
	1	5	-0.0429	-0.5740
			0.0381	-0.2442
			0.0765	-0.1742
			0.1095	-0.0911
			0.1354	-0.0028
			0.6834	1.0863
	1	6	-0.1411	-0.7301
			0.0034	-0.2994
			0.0575	-0.2043
			0.1074	-0.0944
			0.9728	1.3283
	1	7	-0.3308	-0.9891
			-0.0605	-0.3867
			0.0257	-0.2478
			1.3656	1.6236
	1	8	-0.7624	-1.5023
			-0.1985	-0.5507
			1.9609	2.0530
	1	9	-2.2149	-3.0230
			3.2149	3.0230
	2	2	0.1487	-0.5523
			0.1046	-0.1393
			0.1196	-0.0877
			0.1271	-0.0299
			0.1271	0.0299
			0.1196	0.0877
			0.1046	0.1393
			0.1487	0.5523
	2	3	0.1226	-0.6492
			0.0991	-0.1597
			0.1170	-0.0975
			0.1275	-0.0284
			0.1305	0.0423
			0.1255	0.1098
			0.2778	0.7827
	2	4	0.0734	-0.7878
			0.0894	-0.1870
			0.1130	-0.1088
12	2	4	0.1294	-0.0232
			0.1379	0.0632
			0.4569	1.0485
	2	5	-0.0182	-0.9969
			0.0727	-0.2252
			0.1072	-0.1219
			0.1348	-0.0109
			0.7035	1.3549
	2	6	-0.1986	-1.3445
			0.0421	-0.2840
			0.0991	-0.1375
			1.0574	1.7661
	2	7	-0.6115	-2.0341
			-0.0225	-0.3920
			1.6340	2.4260
	2	8	-1.9902	-4.0810
			2.9902	4.0810
	3	3	0.2473	-0.9444
			0.1224	-0.1264
			0.1303	-0.0431
			0.1303	0.0431
			0.1224	0.1264
			0.2473	0.9444
	3	4	0.1829	-1.1901
			0.1167	-0.1484
			0.1310	-0.0405
			0.1373	0.0698
			0.4322	1.3093
	3	5	0.0476	-1.6000
			0.1061	-0.1802
			0.1344	-0.0301
			0.7118	1.8104
	3	6	-0.2726	-2.4146
			0.0847	-0.2347
			1.1879	2.6493
	3	7	-1.3587	-4.8368
			2.3587	4.8368
	4	4	0.3636	-1.7552









N	R1	R2	MU	SIGMA
20	2	0	0.0703	0.0354
			0.0655	0.0488
			0.0591	0.0611
			0.0512	0.0717
			0.0419	0.0801
			0.0311	0.0856
			0.0189	0.0868
			0.0057	0.0809
	3	0	0.1081	-0.3363
			0.0545	-0.0776
			0.0620	-0.0669
			0.0679	-0.0543
			0.0721	-0.0403
			0.0748	-0.0253
			0.0760	-0.0098
			0.0755	0.0060
			0.0735	0.0217
			0.0700	0.0369
			0.0649	0.0512
			0.0583	0.0644
			0.0502	0.0758
			0.0407	0.0849
			0.0297	0.0909
			0.0175	0.0924
			0.0044	0.0863
	4	0	0.1678	-0.4301
			0.0638	-0.0727
			0.0695	-0.0594
			0.0735	-0.0446
			0.0759	-0.0286
			0.0767	-0.0119
			0.0758	0.0050
			0.0734	0.0219
			0.0695	0.0383
			0.0640	0.0538
			0.0571	0.0681
			0.0487	0.0806
			0.0388	0.0906
			0.0277	0.0972
			0.0154	0.0990
			0.0023	0.0928
	5	0	0.2402	-0.5250
			0.0720	-0.0658
			0.0756	-0.0499

N	R1	R2	MU	SIGMA
20	5	0	0.0776	-0.0328
			0.0778	-0.0149
			0.0765	0.0034
			0.0735	0.0217
			0.0690	0.0396
			0.0630	0.0566
			0.0555	0.0722
			0.0466	0.0859
			0.0363	0.0970
			0.0248	0.1046
			0.0123	0.1069
			-0.0007	0.1005
	6	0	0.3259	-0.6206
			0.0787	-0.0567
			0.0800	-0.0383
			0.0796	-0.0188
			0.0775	0.0011
			0.0738	0.0211
			0.0685	0.0407
			0.0617	0.0594
			0.0534	0.0767
			0.0438	0.0920
			0.0329	0.1045
			0.0209	0.1131
			0.0081	0.1161
			-0.0049	0.1096
	7	0	0.4252	-0.7166
			0.0837	-0.0452
			0.0824	-0.0240
			0.0793	-0.0022
			0.0745	0.0198
			0.0681	0.0415
			0.0601	0.0623
			0.0508	0.0817
			0.0402	0.0989
			0.0284	0.1131
			0.0157	0.1231
			0.0024	0.1270
			-0.0106	0.1205
	8	0	0.5390	-0.8125
			0.0864	-0.0309
			0.0820	-0.0068
			0.0757	0.0177
			0.0678	0.0419

N	R1	R2	MU	SIGMA
20	8	0	0.0584	0.0652
			0.0476	0.0871
			0.0355	0.1067
			0.0225	0.1231
			0.0087	0.1349
			-0.0053	0.1400
			-0.0184	0.1336
	9	0	0.6685	-0.9084
			0.0862	-0.0131
			0.0780	0.0143
			0.0680	0.0416
			0.0565	0.0681
			0.0436	0.0931
			0.0296	0.1157
			0.0147	0.1348
			-0.0006	0.1489
			-0.0157	0.1556
			-0.0289	0.1495
	10	0	0.8153	-1.0038
			0.0818	0.0092
			0.0690	0.0403
			0.0546	0.0707
			0.0388	0.0996
			0.0220	0.1260
			0.0045	0.1486
			-0.0130	0.1657
			-0.0297	0.1747
			-0.0434	0.1691
	11	0	0.9817	-1.0989
			0.0713	0.0374
			0.0529	0.0728
			0.0330	0.1068
			0.0122	0.1381
			-0.0090	0.1653
			-0.0298	0.1864
			-0.0489	0.1983
			-0.0634	0.1938
	12	0	1.1708	-1.1933
			0.0517	0.0741
			0.0260	0.1146
			-0.0006	0.1524
			-0.0273	0.1858
			-0.0530	0.2124

N	R1	R2	MU	SIGMA
20	12	0	-0.0758	0.2284
			-0.0917	0.2255
	13	0	1.3871	-1.2869
			0.0176	0.1232
			-0.0178	0.1699
			-0.0528	0.2118
			-0.0860	0.2460
			-0.1148	0.2681
			-0.1333	0.2679
	14	0	1.6373	-1.3796
			-0.0414	0.1918
			-0.0898	0.2461
			-0.1352	0.2916
			-0.1737	0.3229
			-0.1972	0.3271
	15	0	1.9319	-1.4709
			-0.1469	0.2941
			-0.2133	0.3575
			-0.2694	0.4035
			-0.3023	0.4157
	16	0	2.2887	-1.5601
			-0.3513	0.4626
			-0.4421	0.5349
			-0.4952	0.5626
	17	0	2.7416	-1.6458
			-0.8181	0.7913
			-0.9234	0.8545
	18	0	3.3704	-1.7231
			-2.3704	1.7231
	0	1	0.0065	-0.0765
			0.0198	-0.0821
			0.0319	-0.0811
			0.0426	-0.0760
			0.0519	-0.0681
			0.0596	-0.0581
			0.0659	-0.0466
			0.0706	-0.0340
			0.0737	-0.0206
			0.0754	-0.0067
			0.0754	0.0072

N	R1	R2	MU	SIGMA
20	0	1	0.0739	0.0211
			0.0709	0.0344
			0.0663	0.0470
			0.0601	0.0585
			0.0524	0.0683
			0.0432	0.0761
			0.0325	0.0810
			0.0274	0.1561
	1	1	0.0267	-0.1640
			0.0322	-0.0850
			0.0429	-0.0798
			0.0522	-0.0717
			0.0599	-0.0613
			0.0661	-0.0492
			0.0707	-0.0360
			0.0739	-0.0219
			0.0754	-0.0073
			0.0754	0.0073
			0.0739	0.0219
			0.0707	0.0360
			0.0661	0.0492
			0.0599	0.0613
			0.0522	0.0717
			0.0429	0.0798
			0.0322	0.0850
			0.0267	0.1640
	1	2	0.0251	-0.1739
			0.0314	-0.0900
			0.0422	-0.0844
			0.0515	-0.0756
			0.0594	-0.0645
			0.0657	-0.0517
			0.0705	-0.0376
			0.0737	-0.0226
			0.0754	-0.0072
			0.0756	0.0084
			0.0742	0.0238
			0.0712	0.0387
			0.0667	0.0527
			0.0606	0.0654
			0.0529	0.0762
			0.0437	0.0847
			0.0604	0.2577
	1	3	0.0223	-0.1860

N	R1	R2	MU	SIGMA
20	1	3	0.0300	-0.0959
			0.0409	-0.0898
			0.0504	-0.0803
			0.0585	-0.0683
			0.0650	-0.0544
			0.0701	-0.0393
			0.0736	-0.0232
			0.0756	-0.0067
			0.0760	0.0100
			0.0748	0.0265
			0.0720	0.0423
			0.0677	0.0572
			0.0618	0.0706
			0.0542	0.0819
			0.1071	0.3555
	1	4	0.0179	-0.2005
			0.0279	-0.1030
			0.0390	-0.0962
			0.0488	-0.0857
			0.0572	-0.0725
			0.0641	-0.0574
			0.0696	-0.0410
			0.0735	-0.0236
			0.0759	-0.0057
			0.0767	0.0123
			0.0759	0.0300
			0.0735	0.0470
			0.0694	0.0628
			0.0637	0.0770
			0.1671	0.4563
	1	5	0.0116	-0.2178
			0.0248	-0.1114
			0.0363	-0.1036
			0.0465	-0.0919
			0.0554	-0.0773
			0.0629	-0.0607
			0.0690	-0.0426
			0.0735	-0.0235
			0.0765	-0.0040
			0.0778	0.0155
			0.0776	0.0347
			0.0756	0.0530
			0.0720	0.0699
			0.2405	0.5597
	1	6	0.0027	-0.2386

N	R1	R2	MU	SIGMA
20	1	6	0.0206	-0.1212
			0.0326	-0.1122
			0.0435	-0.0990
			0.0531	-0.0827
			0.0615	-0.0641
			0.0683	-0.0441
			0.0737	-0.0231
			0.0775	-0.0016
			0.0797	0.0198
			0.0802	0.0407
			0.0789	0.0605
			0.3279	0.6655
	1	7	-0.0096	-0.2635
			0.0148	-0.1329
			0.0276	-0.1224
			0.0394	-0.1072
			0.0502	-0.0886
			0.0597	-0.0678
			0.0677	-0.0453
			0.0743	-0.0219
			0.0792	0.0019
			0.0825	0.0256
			0.0840	0.0485
			0.4302	0.7736
	1	8	-0.0265	-0.2938
			0.0070	-0.1469
			0.0209	-0.1343
			0.0342	-0.1166
			0.0464	-0.0954
			0.0575	-0.0716
			0.0673	-0.0462
			0.0755	-0.0198
			0.0820	0.0069
			0.0868	0.0332
			0.5489	0.8845
	1	9	-0.0496	-0.3311
			-0.0035	-0.1638
			0.0120	-0.1486
			0.0273	-0.1278
			0.0417	-0.1030
			0.0551	-0.0756
			0.0671	-0.0464
			0.0776	-0.0163
			0.0863	0.0139

N	R1	R2	MU	SIGMA
20	1	9	0.6860	0.9988
	1	10	-0.0818	-0.3780
			-0.0179	-0.1848
			0.0001	-0.1661
			0.0181	-0.1411
			0.0357	-0.1118
			0.0523	-0.0796
			0.0676	-0.0456
			0.0813	-0.0109
			0.8445	1.1178
	1	11	-0.1274	-0.4383
			-0.0379	-0.2113
			-0.0164	-0.1878
			0.0059	-0.1572
			0.0281	-0.1219
			0.0494	-0.0835
			0.0694	-0.0433
			1.0289	1.2433
	1	12	-0.1938	-0.5186
			-0.0667	-0.2461
			-0.0396	-0.2158
			-0.0108	-0.1775
			0.0182	-0.1338
			0.0465	-0.0869
			1.2462	1.3788
	1	13	-0.2952	-0.6307
			-0.1097	-0.2937
			-0.0736	-0.2535
			-0.0347	-0.2039
			0.0051	-0.1483
			1.5081	1.5301
	1	14	-0.4602	-0.7981
			-0.1784	-0.3634
			-0.1269	-0.3075
			-0.0707	-0.2404
			1.8361	1.7094
	1	15	-0.7580	-1.0754
			-0.2998	-0.4764
			-0.2189	-0.3933
			2.2767	1.9450
	1	16	-1.4024	-1.6259

N	R1	R2	MU	SIGMA
20	1	16	-0.5566	-0.6958
			2.9591	2.3218
	1	17	-3.4912	-3.2648
			4.4912	3.2648
	2	2	0.0580	-0.2741
			0.0430	-0.0899
			0.0523	-0.0808
			0.0600	-0.0691
			0.0662	-0.0556
			0.0709	-0.0406
			0.0740	-0.0247
			0.0756	-0.0083
			0.0756	0.0083
			0.0740	0.0247
			0.0709	0.0406
			0.0662	0.0556
			0.0600	0.0691
			0.0523	0.0808
			0.0430	0.0899
			0.0580	0.2741
	2	3	0.0537	-0.2942
			0.0416	-0.0961
			0.0511	-0.0862
			0.0591	-0.0735
			0.0656	-0.0588
			0.0705	-0.0426
			0.0739	-0.0255
			0.0757	-0.0078
			0.0760	0.0100
			0.0747	0.0276
			0.0718	0.0446
			0.0673	0.0606
			0.0613	0.0750
			0.0536	0.0872
			0.1043	0.3796
	2	4	0.0471	-0.3184
			0.0396	-0.1034
			0.0494	-0.0924
			0.0577	-0.0785
			0.0646	-0.0624
			0.0699	-0.0447
			0.0737	-0.0261
			0.0760	-0.0068

N	R1	R2	MU	SIGMA
20	2	4	0.0766	0.0125
			0.0757	0.0316
			0.0732	0.0499
			0.0691	0.0669
			0.0633	0.0822
			0.1641	0.4896
	2	5	0.0373	-0.3475
			0.0367	-0.1121
			0.0469	-0.0997
			0.0558	-0.0842
			0.0632	-0.0663
			0.0692	-0.0468
			0.0736	-0.0263
			0.0765	-0.0052
			0.0778	0.0160
			0.0775	0.0367
			0.0755	0.0566
			0.0717	0.0750
			0.2381	0.6039
	2	6	0.0235	-0.3826
			0.0327	-0.1223
			0.0436	-0.1083
			0.0532	-0.0907
			0.0615	-0.0707
			0.0684	-0.0489
			0.0737	-0.0260
			0.0775	-0.0027
			0.0797	0.0207
			0.0801	0.0435
			0.0788	0.0651
			0.3272	0.7229
	2	7	0.0041	-0.4254
			0.0271	-0.1346
			0.0390	-0.1183
			0.0498	-0.0982
			0.0594	-0.0754
			0.0675	-0.0508
			0.0742	-0.0251
			0.0792	0.0011
			0.0826	0.0271
			0.0841	0.0523
			0.4329	0.8473
	2	8	-0.0228	-0.4781

N	R1	R2	MU	SIGMA
20	2	8	0.0196	-0.1494
			0.0329	-0.1302
			0.0454	-0.1069
			0.0567	-0.0806
			0.0667	-0.0525
			0.0751	-0.0232
			0.0820	0.0065
			0.0870	0.0357
			0.5574	0.9786
	2	9	-0.0605	-0.5443
			0.0092	-0.1676
			0.0247	-0.1446
			0.0396	-0.1171
			0.0535	-0.0863
			0.0660	-0.0536
			0.0771	-0.0198
			0.0864	0.0142
			0.7040	1.1191
	2	10	-0.1141	-0.6295
			-0.0052	-0.1905
			0.0135	-0.1625
			0.0319	-0.1293
			0.0495	-0.0926
			0.0658	-0.0539
			0.0806	-0.0142
			0.8780	1.2726
	2	11	-0.1924	-0.7430
			-0.0258	-0.2204
			-0.0022	-0.1853
			0.0215	-0.1443
			0.0447	-0.0996
			0.0667	-0.0527
			1.0876	1.4454
	2	12	-0.3116	-0.9014
			-0.0565	-0.2611
			-0.0251	-0.2157
			0.0071	-0.1636
			0.0389	-0.1073
			1.3472	1.6491
	2	13	-0.5048	-1.1378
			-0.1049	-0.3204
			-0.0605	-0.2590

N	R1	R2	MU	SIGMA
20	2	13	-0.0143	-0.1897
			1.6844	1.9068
	2	14	-0.8507	-1.5294
			-0.1894	-0.4161
			-0.1207	-0.3272
			2.1609	2.2727
	2	15	-1.5903	-2.3073
			-0.3656	-0.6014
			2.9560	2.9087
	2	16	-3.9459	-4.6252
			4.9459	4.6252
	3	3	0.0989	-0.4092
			0.0525	-0.0935
			0.0603	-0.0801
			0.0666	-0.0645
			0.0713	-0.0471
			0.0745	-0.0287
			0.0760	-0.0096
			0.0760	0.0096
			0.0745	0.0287
			0.0713	0.0471
			0.0666	0.0645
			0.0603	0.0801
			0.0525	0.0935
			0.0989	0.4092
	3	4	0.0902	-0.4451
			0.0507	-0.1010
			0.0589	-0.0861
			0.0655	-0.0689
			0.0707	-0.0498
			0.0742	-0.0296
			0.0762	-0.0087
			0.0767	0.0123
			0.0755	0.0331
			0.0727	0.0530
			0.0683	0.0717
			0.0623	0.0885
			0.1581	0.5306
	3	5	0.0772	-0.4887
			0.0480	-0.1098
			0.0568	-0.0931

N	R1	R2	MU	SIGMA
20	3	5	0.0640	-0.0738
			0.0698	-0.0526
			0.0741	-0.0302
			0.0767	-0.0071
			0.0778	0.0161
			0.0772	0.0388
			0.0750	0.0607
			0.0711	0.0810
			0.2322	0.6588
	3	6	0.0584	-0.5419
			0.0443	-0.1203
			0.0539	-0.1013
			0.0621	-0.0794
			0.0688	-0.0555
			0.0740	-0.0304
			0.0776	-0.0046
			0.0796	0.0213
			0.0799	0.0465
			0.0785	0.0706
			0.3228	0.7950
	3	7	0.0317	-0.6077
			0.0392	-0.1329
			0.0500	-0.1109
			0.0595	-0.0858
			0.0676	-0.0585
			0.0742	-0.0299
			0.0792	-0.0007
			0.0825	0.0284
			0.0841	0.0567
			0.4320	0.9412
	3	8	-0.0062	-0.6904
			0.0321	-0.1484
			0.0447	-0.1225
			0.0561	-0.0931
			0.0663	-0.0614
			0.0749	-0.0284
			0.0819	0.0052
			0.0871	0.0384
			0.5632	1.1006
	3	9	-0.0608	-0.7969
			0.0222	-0.1678
			0.0374	-0.1367
			0.0518	-0.1016

N	R1	R2	MU	SIGMA
20	3	9	0.0649	-0.0641
			0.0765	-0.0253
			0.0863	0.0139
			0.7218	1.2786
	3	10	-0.1409	-0.9389
			0.0080	-0.1929
			0.0273	-0.1545
			0.0460	-0.1118
			0.0636	-0.0664
			0.0796	-0.0198
			0.9164	1.4844
	3	11	-0.2633	-1.1371
			-0.0130	-0.2269
			0.0128	-0.1781
			0.0383	-0.1243
			0.0628	-0.0677
			1.1624	1.7342
	3	12	-0.4616	-1.4330
			-0.0460	-0.2762
			-0.0094	-0.2112
			0.0274	-0.1406
			1.4897	2.0610
	3	13	-0.8160	-1.9233
			-0.1032	-0.3553
			-0.0467	-0.2628
			1.9660	2.5415
	3	14	-1.5699	-2.8979
			-0.2212	-0.5079
			2.7911	3.4058
	3	15	-3.9517	-5.8042
			4.9517	5.8042
	4	4	0.1479	-0.5808
			0.0608	-0.0959
			0.0672	-0.0772
			0.0720	-0.0565
			0.0752	-0.0344
			0.0768	-0.0116
			0.0768	0.0116
			0.0752	0.0345
			0.0720	0.0565

N	R1	R2	MU	SIGMA
20	4	4	0.0672	0.0772
			0.0608	0.0959
			0.1479	0.5808
	4	5	0.1322	-0.6425
			0.0586	-0.1047
			0.0656	-0.0836
			0.0710	-0.0604
			0.0749	-0.0356
			0.0772	-0.0101
			0.0779	0.0156
			0.0769	0.0410
			0.0743	0.0654
			0.0700	0.0880
			0.2215	0.7269
	4	6	0.1089	-0.7190
			0.0554	-0.1152
			0.0633	-0.0911
			0.0698	-0.0646
			0.0747	-0.0365
			0.0780	-0.0076
			0.0796	0.0214
			0.0796	0.0498
			0.0778	0.0770
			0.3130	0.8857
	4	7	0.0748	-0.8154
			0.0509	-0.1280
			0.0602	-0.0999
			0.0682	-0.0691
			0.0746	-0.0368
			0.0794	-0.0036
			0.0825	0.0295
			0.0838	0.0618
			0.4257	1.0614
	4	8	0.0249	-0.9397
			0.0445	-0.1439
			0.0560	-0.1105
			0.0661	-0.0741
			0.0748	-0.0361
			0.0819	0.0026
			0.0871	0.0411
			0.5647	1.2606
	4	9	-0.0494	-1.1056

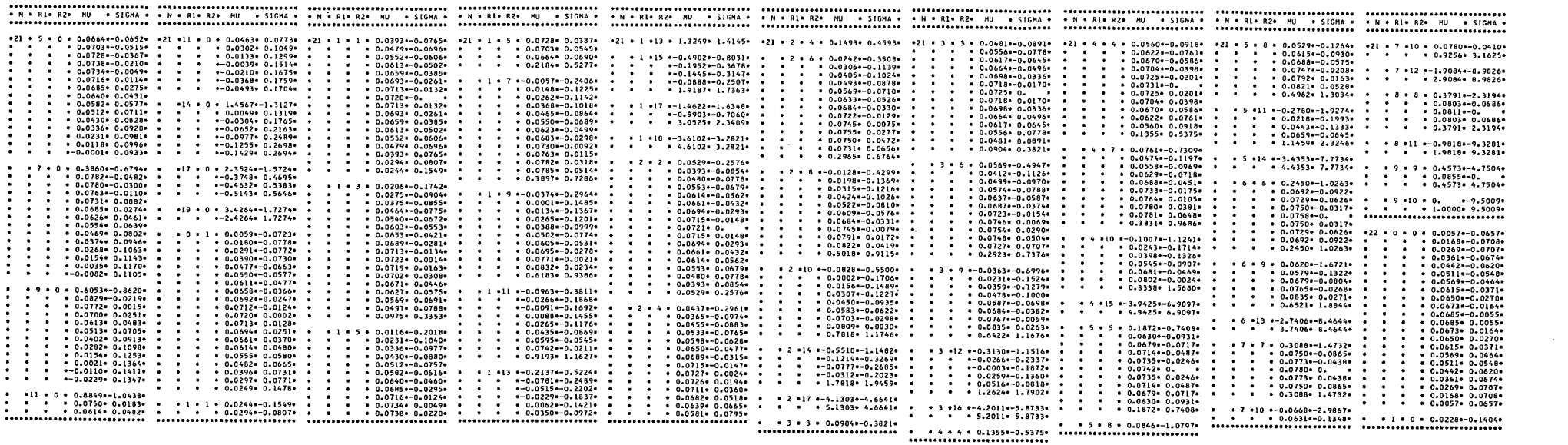
N	R1	R2	MU	SIGMA
20	4	9	0.0353	-0.1644
			0.0501	-0.1236
			0.0637	-0.0796
			0.0758	-0.0339
			0.0862	0.0124
			0.7383	1.4948
	4	10	-0.1638	-1.3372
			0.0217	-0.1919
			0.0417	-0.1406
			0.0607	-0.0857
			0.0782	-0.0291
			0.9614	1.7844
	4	11	-0.3502	-1.6832
			0.0005	-0.2313
			0.0291	-0.1639
			0.0570	-0.0925
			1.2636	2.1710
	4	12	-0.6841	-2.2569
			-0.0362	-0.2943
			0.0084	-0.1995
			1.7118	2.7507
	4	13	-1.3940	-3.3976
			-0.1113	-0.4149
			2.5053	3.8126
	4	14	-3.6309	-6.8017
			4.6309	6.8017
	5	5	0.2040	-0.8117
			0.0682	-0.0965
			0.0732	-0.0707
			0.0765	-0.0431
			0.0781	-0.0145
			0.0781	0.0145
			0.0765	0.0431
			0.0732	0.0707
			0.0682	0.0965
			0.2040	0.8117
	5	6	0.1771	-0.9189
			0.0657	-0.1066
			0.0716	-0.0768
			0.0760	-0.0451

N	R1	R2	MU	SIGMA
20	5	6	0.0787	-0.0122
			0.0797	0.0208
			0.0790	0.0534
			0.0767	0.0846
			0.2956	1.0009
	5	7	0.1361	-1.0576
			0.0620	-0.1192
			0.0695	-0.0840
			0.0755	-0.0467
			0.0798	-0.0083
			0.0824	0.0301
			0.0833	0.0677
			0.4114	1.2179
	5	8	0.0736	-1.2427
			0.0566	-0.1351
			0.0666	-0.0925
			0.0751	-0.0477
			0.0820	-0.0019
			0.0871	0.0438
			0.5589	1.4760
	5	9	-0.0244	-1.5015
			0.0486	-0.1562
			0.0626	-0.1031
			0.0752	-0.0476
			0.0861	0.0089
			0.7518	1.7994
	5	10	-0.1860	-1.8883
			0.0361	-0.1861
			0.0569	-0.1169
			0.0762	-0.0451
			1.0168	2.2363
	5	11	-0.4778	-2.5300
			0.0147	-0.2332
			0.0478	-0.1368
			1.4152	2.8999
	5	12	-1.1008	-3.8066
			-0.0288	-0.3224
			2.1296	4.1290
	5	13	-3.0666	-7.6180
			4.0666	7.6180
	6	6	0.2668	-1.1503

N	R1	R2	MU	SIGMA
20	6	6	0.0749	-0.0937
			0.0783	-0.0572
			0.0800	-0.0192
			0.0800	0.0192
			0.0783	0.0572
			0.0749	0.0937
			0.2668	1.1503
	6	7	0.2205	-1.3501
			0.0722	-0.1052
			0.0774	-0.0613
			0.0808	-0.0159
			0.0825	0.0298
			0.0824	0.0747
			0.3843	1.4279
	6	8	0.1452	-1.6298
			0.0683	-0.1200
			0.0762	-0.0656
			0.0825	-0.0097
			0.0869	0.0463
			0.5410	1.7787
	6	9	0.0179	-2.0482
			0.0620	-0.1405
			0.0748	-0.0701
			0.0860	0.0018
			0.7593	2.2569
	6	10	-0.2157	-2.7426
			0.0514	-0.1719
			0.0733	-0.0745
			1.0909	2.9890
	6	11	-0.7202	-4.1247
			0.0302	-0.2301
			1.6900	4.3549
	6	12	-2.3221	-8.2528
			3.3221	8.2528
	7	7	0.3363	-1.7222
			0.0810	-0.0834
			0.0828	-0.0280
			0.0828	0.0280
			0.0810	0.0834
			0.3363	1.7222
	7	8	0.2502	-2.1629

N	R1	R2	MU	SIGMA
20	7	8	0.0788	-0.0946
			0.0837	-0.0234
			0.0867	0.0484
			0.5006	2.2324
	7	9	0.0861	-2.8948
			0.0752	-0.1106
			0.0861	-0.0126
			0.7526	3.0179
	7	10	-0.2773	-4.3521
			0.0683	-0.1380
			1.2090	4.4902
	7	11	-1.4497	-8.7062
			2.4497	8.7062
	8	8	0.4134	-2.9865
			0.0866	-0.0491
			0.0866	0.0491
			0.4134	2.9865
	8	9	0.2054	-4.4888
			0.0871	-0.0460
			0.7075	4.5348
	8	10	-0.4950	-8.9783
			1.4950	8.9783
	9	9	0.5000	-9.0690
			0.5000	9.0690
21	0	0	0.0062	-0.0692
			0.0183	-0.0744
			0.0294	-0.0739
			0.0393	-0.0700
			0.0479	-0.0636
			0.0552	-0.0554
			0.0612	-0.0458
			0.0659	-0.0352
			0.0693	-0.0239
			0.0713	-0.0120
			0.0719	0.
			0.0713	0.0120
			0.0693	0.0239
			0.0659	0.0352

N	R1	R2	MU	SIGMA
21	0	0	0.0612	0.0458
			0.0552	0.0554
			0.0479	0.0636
			0.0393	0.0700
			0.0294	0.0739
			0.0183	0.0744
			0.0062	0.0692
	1	0	0.0249	-0.1478
			0.0297	-0.0771
			0.0396	-0.0731
			0.0482	-0.0665
			0.0555	-0.0580
			0.0614	-0.0480
			0.0661	-0.0370
			0.0694	-0.0251
			0.0713	-0.0128
			0.0720	-0.0002
			0.0712	0.0124
			0.0692	0.0247
			0.0658	0.0366
			0.0611	0.0477
			0.0550	0.0577
			0.0477	0.0663
			0.0390	0.0730
			0.0291	0.0772
			0.0180	0.0778
			0.0059	0.0723
	3	0	0.0983	-0.3184
			0.0499	-0.0749
			0.0571	-0.0657
			0.0628	-0.0548
			0.0672	-0.0426
			0.0703	-0.0294
			0.0719	-0.0157
			0.0723	-0.0016
			0.0712	0.0125
			0.0688	0.0264
			0.0651	0.0398
			0.0601	0.0523
			0.0538	0.0637
			0.0462	0.0735
			0.0373	0.0812
			0.0273	0.0860
			0.0161	0.0869
			0.0041	0.0810
	5	0	0.2184	-0.4974



N	R1	R2	MU	SIGMA
23	9	0	0.0752	-0.0329
			0.0727	-0.0154
			0.0690	0.0025
			0.0642	0.0205
			0.0583	0.0382
			0.0514	0.0553
			0.0436	0.0714
			0.0350	0.0862
			0.0257	0.0990
			0.0157	0.1094
			0.0053	0.1164
			-0.0051	0.1185
			-0.0149	0.1122
	13	0	1.0155	-1.1130
			0.0615	0.0342
			0.0466	0.0619
			0.0307	0.0887
			0.0142	0.1139
			-0.0027	0.1367
			-0.0195	0.1561
			-0.0356	0.1706
			-0.0501	0.1780
			-0.0606	0.1728
	16	0	1.5859	-1.3575
			-0.0189	0.1470
			-0.0540	0.1878
			-0.0879	0.2242
			-0.1192	0.2537
			-0.1453	0.2727
			-0.1606	0.2721
	19	0	2.4702	-1.5937
			-0.4182	0.4815
			-0.5022	0.5442
			-0.5498	0.5680
	21	0	3.5303	-1.7349
			-2.5303	1.7349
	0	1	0.0050	-0.0652
			0.0152	-0.0703
			0.0246	-0.0704
			0.0331	-0.0676
			0.0406	-0.0627
			0.0472	-0.0562

N	R1	R2	MU	SIGMA
23	0	1	0.0528	-0.0485
			0.0574	-0.0398
			0.0610	-0.0304
			0.0636	-0.0205
			0.0651	-0.0102
			0.0657	0.0002
			0.0652	0.0106
			0.0637	0.0208
			0.0612	0.0307
			0.0577	0.0401
			0.0531	0.0487
			0.0476	0.0564
			0.0410	0.0628
			0.0335	0.0677
			0.0250	0.0703
			0.0209	0.1336
	1	1	0.0204	-0.1393
			0.0248	-0.0732
			0.0333	-0.0705
			0.0408	-0.0654
			0.0474	-0.0587
			0.0530	-0.0507
			0.0575	-0.0416
			0.0611	-0.0319
			0.0636	-0.0215
			0.0652	-0.0109
			0.0657	-0.
			0.0652	0.0109
			0.0636	0.0215
			0.0611	0.0319
			0.0575	0.0416
			0.0530	0.0507
			0.0474	0.0587
			0.0408	0.0654
			0.0333	0.0705
			0.0248	0.0732
			0.0204	0.1393
	1	5	0.0112	-0.1758
			0.0202	-0.0916
			0.0290	-0.0876
			0.0370	-0.0808
			0.0441	-0.0719
			0.0503	-0.0614
			0.0556	-0.0497
			0.0598	-0.0370

N	R1	R2	MU	SIGMA
23	1	5	0.0631	-0.0238
			0.0654	-0.0102
			0.0666	0.0035
			0.0668	0.0172
			0.0660	0.0306
			0.0641	0.0434
			0.0611	0.0554
			0.0570	0.0663
			0.1827	0.4733
	1	9	-0.0218	-0.2445
			0.0042	-0.1248
			0.0146	-0.1176
			0.0247	-0.1065
			0.0341	-0.0928
			0.0429	-0.0769
			0.0508	-0.0597
			0.0579	-0.0413
			0.0639	-0.0224
			0.0689	-0.0031
			0.0728	0.0162
			0.0755	0.0350
			0.5114	0.8384
	1	13	-0.1234	-0.3867
			-0.0425	-0.1904
			-0.0259	-0.1745
			-0.0084	-0.1530
			0.0093	-0.1277
			0.0269	-0.0996
			0.0438	-0.0698
			0.0599	-0.0388
			1.0603	1.2406
	1	17	-0.5459	-0.8119
			-0.2262	-0.3755
			-0.1772	-0.3271
			-0.1227	-0.2686
			2.0720	1.7831
	1	20	-3.8307	-3.3122
			4.8307	3.3122
	2	2	0.0446	-0.2298
			0.0333	-0.0776
			0.0409	-0.0722
			0.0475	-0.0648

N	R1	R2	MU	SIGMA
23	2	2	0.0531	-0.0560
			0.0576	-0.0460
			0.0612	-0.0352
			0.0637	-0.0238
			0.0653	-0.0120
			0.0658	0.
			0.0653	0.0120
			0.0637	0.0238
			0.0612	0.0352
			0.0576	0.0460
			0.0531	0.0560
			0.0475	0.0648
			0.0409	0.0722
			0.0333	0.0776
			0.0446	0.2298
	2	6	0.0241	-0.3006
			0.0269	-0.1000
			0.0352	-0.0921
			0.0426	-0.0818
			0.0492	-0.0696
			0.0548	-0.0560
			0.0594	-0.0415
			0.0631	-0.0262
			0.0658	-0.0105
			0.0674	0.0054
			0.0680	0.0211
			0.0674	0.0364
			0.0658	0.0511
			0.0631	0.0647
			0.2472	0.5996
	2	10	-0.0449	-0.4382
			0.0063	-0.1409
			0.0176	-0.1272
			0.0284	-0.1101
			0.0387	-0.0906
			0.0483	-0.0693
			0.0569	-0.0467
			0.0646	-0.0235
			0.0712	0.0001
			0.0766	0.0235
			0.6362	1.0230
	2	14	-0.2798	-0.7633
			-0.0590	-0.2316
			-0.0358	-0.2013

N	R1	R2	MU	SIGMA
23	2	14	-0.0115	-0.1658
			0.0129	-0.1266
			0.0370	-0.0852
			1.3362	1.5737
	2	19	-4.4724	-4.7317
			5.4724	4.7317
	3	3	0.0764	-0.3374
			0.0410	-0.0812
			0.0476	-0.0730
			0.0532	-0.0631
			0.0578	-0.0519
			0.0614	-0.0397
			0.0640	-0.0269
			0.0655	-0.0135
			0.0660	-0.
			0.0655	0.0135
			0.0640	0.0269
			0.0614	0.0397
			0.0578	0.0519
			0.0532	0.0631
			0.0476	0.0730
			0.0410	0.0812
			0.0764	0.3374
	3	7	0.0381	-0.4599
			0.0327	-0.1078
			0.0406	-0.0956
			0.0476	-0.0811
			0.0538	-0.0650
			0.0590	-0.0476
			0.0632	-0.0295
			0.0664	-0.0109
			0.0686	0.0079
			0.0696	0.0264
			0.0696	0.0445
			0.0684	0.0617
			0.3224	0.7570
	3	11	-0.0927	-0.7161
			0.0064	-0.1593
			0.0194	-0.1372
			0.0321	-0.1118
			0.0441	-0.0842
			0.0553	-0.0551
			0.0656	-0.0252

N	R1	R2	MU	SIGMA
23	3	11	0.0747	0.0050
			0.7951	1.2840
	3	15	-0.6400	-1.4819
			-0.0940	-0.3001
			-0.0563	-0.2435
			-0.0175	-0.1816
			1.8078	2.2071
	3	18	-4.6650	-5.9934
			5.6650	5.9934
	4	4	0.1149	-0.4678
			0.0479	-0.0841
			0.0535	-0.0727
			0.0582	-0.0599
			0.0618	-0.0459
			0.0644	-0.0310
			0.0660	-0.0156
			0.0665	-0.
			0.0660	0.0156
			0.0644	0.0310
			0.0618	0.0459
			0.0582	0.0599
			[illegible]	0.0727
			0.0479	0.0841
			0.1149	0.4678
	4	8	0.0487	-0.6715
			0.0376	-0.1156
			0.0454	-0.0979
			0.0524	-0.0780
			0.0584	-0.0567
			0.0634	-0.0344
			0.0674	-0.0115
			0.0703	0.0115
			0.0721	0.0342
			0.0727	0.0562
			0.4115	0.9637
	4	12	-0.1967	-1.1565
			0.0034	-0.1834
			0.0201	-0.1481
			0.0365	-0.1098
			0.0521	-0.0694
			0.0668	-0.0281
			1.0179	1.6953
	4	17	-4.5243	-7.0975

N	R1	R2	MU	SIGMA
23	4	17	5.5243	7.0975
	5	5	0.1592	-0.6315
			0.0541	-0.0861
			0.0588	-0.0710
			0.0625	-0.0544
			0.0651	-0.0368
			0.0667	-0.0185
			0.0672	0.
			0.0667	0.0185
			0.0651	0.0368
			0.0625	0.0544
			0.0588	0.0710
			0.0541	0.0861
			0.1592	0.6315
	5	9	0.0485	-0.9720
			0.0419	-0.1237
			0.0500	-0.0982
			0.0573	-0.0706
			0.0635	-0.0419
			0.0688	-0.0124
			0.0729	0.0171
			0.0758	0.0463
			0.5212	1.2556
	5	13	-0.4508	-1.9956
			-0.0060	-0.2222
			0.0192	-0.1618
			0.0440	-0.0984
			1.3936	2.4779
	5	16	-4.1276	-8.0438
			5.1276	8.0438
	6	6	0.2088	-0.8470
			0.0597	-0.0870
			0.0634	-0.0668
			0.0662	-0.0451
			0.0678	-0.0228
			0.0683	-0.
			0.0678	0.0228
			0.0662	0.0451
			0.0634	0.0668
			0.0597	0.0870
			0.2088	0.8470
	6	10	0.0210	-1.4467

N	R1	R2	MU	SIGMA
23	6	10	0.0455	-0.1326
			0.0548	-0.0946
			0.0633	-0.0547
			0.0707	-0.0140
			0.0769	0.0269
			0.6679	1.7158
	6	15	-3.5322	-8.8324
			4.5322	8.8324
	7	7	0.2634	-1.1519
			0.0648	-0.0858
			0.0676	-0.0582
			0.0693	-0.0293
			0.0698	-0.
			0.0693	0.0293
			0.0676	0.0582
			0.0648	0.0858
			0.2634	1.1519
	7	11	-0.0828	-2.3520
			0.0484	-0.1432
			0.0612	-0.0807
			0.0730	-0.0169
			0.9001	2.5928
	7	14	-2.7845	-9.4633
			3.7845	9.4633
	8	8	0.3231	-1.6331
			0.0696	-0.0803
			0.0714	-0.0406
			0.0719	-0.
			0.0714	0.0406
			0.0696	0.0803
			0.3231	1.6331
	8	13	-1.9238	-9.9365
			2.9238	9.9365
	9	9	0.3884	-2.5510
			0.0742	-0.0635
			0.0748	-0.
			0.0742	0.0635
			0.3884	2.5510
	9	10	0.2575	-3.4112

N	R1	R2	MU	SIGMA
23	9	10	0.0732	-0.0702
			0.0774	0.0168
			0.5920	3.4646
	9	12	-0.9848	-10.2519
			1.9848	10.2519
	10	10	0.4607	-5.2048
			0.0786	-0.
			0.4607	5.2048
	10	11	-0.	-10.4096
			1.0000	10.4096
24	0	0	0.0048	-0.0598
			0.0142	-0.0645
			0.0229	-0.0649
			0.0308	-0.0627
			0.0379	-0.0587
			0.0441	-0.0533
			0.0494	-0.0467
			0.0538	-0.0393
			0.0574	-0.0312
			0.0601	-0.0226
			0.0619	-0.0137
			0.0628	-0.0046
			0.0628	0.0046
			0.0619	0.0137
			0.0601	0.0226
			0.0574	0.0312
			0.0538	0.0393
			0.0494	0.0467
			0.0441	0.0533
			0.0379	0.0587
			0.0308	0.0627
			0.0229	0.0649
			0.0142	0.0645
			0.0048	0.0598
	1	0	0.0192	-0.1275
			0.0231	-0.0673
			0.0310	-0.0651
			0.0380	-0.0610
			0.0442	-0.0554
			0.0496	-0.0486
			0.0540	-0.0409

N	R1	R2	MU	SIGMA
24	1	0	0.0575	-0.0325
			0.0602	-0.0236
			0.0619	-0.0144
			0.0628	-0.0049
			0.0628	0.0046
			0.0619	0.0141
			0.0600	0.0234
			0.0573	0.0323
			0.0537	0.0407
			0.0493	0.0484
			0.0439	0.0552
			0.0377	0.0609
			0.0306	0.0651
			0.0227	0.0674
			0.0140	0.0670
			0.0046	0.0622
	5	0	0.1684	-0.4288
			0.0530	-0.0618
			0.0570	-0.0528
			0.0602	-0.0427
			0.0624	-0.0319
			0.0636	-0.0206
			0.0639	-0.0090
			0.0633	0.0028
			0.0618	0.0146
			0.0594	0.0261
			0.0561	0.0373
			0.0519	0.0479
			0.0469	0.0577
			0.0411	0.0664
			0.0344	0.0737
			0.0270	0.0793
			0.0188	0.0825
			0.0100	0.0825
			0.0008	0.0769
	9	0	0.4627	-0.7462
			0.0713	-0.0362
			0.0698	-0.0209
			0.0673	-0.0052
			0.0637	0.0108
			0.0593	0.0265
			0.0538	0.0421
			0.0477	0.0567
			0.0406	0.0708
			0.0329	0.0832

N	R1	R2	MU	SIGMA
24	9	0	0.0245	0.0942
			0.0156	0.1028
			0.0062	0.1084
			-0.0032	0.1096
			-0.0122	0.1035
	13	0	0.9268	-1.0643
			0.0649	0.0189
			0.0535	0.0428
			0.0411	0.0661
			0.0280	0.0884
			0.0143	0.1091
			0.0003	0.1277
			-0.0136	0.1432
			-0.0271	0.1545
			-0.0394	0.1596
			-0.0487	0.1540
	17	0	1.6460	-1.3770
			-0.0301	0.1536
			-0.0649	0.1928
			-0.0984	0.2276
			-0.1291	0.2559
			-0.1545	0.2739
			-0.1690	0.2733
	22	0	3.5787	-1.7382
			-2.5787	1.7382
	0	1	0.0046	-0.0622
			0.0140	-0.0670
			0.0227	-0.0674
			0.0306	-0.0651
			0.0377	-0.0609
			0.0439	-0.0552
			0.0493	-0.0484
			0.0537	-0.0407
			0.0573	-0.0323
			0.0600	-0.0234
			0.0619	-0.0141
			0.0628	-0.0046
			0.0628	0.0049
			0.0619	0.0144
			0.0602	0.0236
			0.0575	0.0325
			0.0540	0.0409
			0.0496	0.0486

N	R1	R2	MU	SIGMA
24	0	1	0.0442	0.0554
			0.0380	0.0610
			0.0310	0.0651
			0.0231	0.0673
			0.0192	0.1275
	1	1	0.0188	-0.1326
			0.0229	-0.0700
			0.0308	-0.0677
			0.0379	-0.0634
			0.0441	-0.0575
			0.0494	-0.0504
			0.0539	-0.0425
			0.0574	-0.0337
			0.0601	-0.0245
			0.0619	-0.0148
			0.0628	-0.0050
			0.0628	0.0050
			0.0619	0.0148
			0.0601	0.0245
			0.0574	0.0337
			0.0539	0.0425
			0.0494	0.0504
			0.0441	0.0575
			0.0379	0.0634
			0.0308	0.0677
			0.0229	0.0700
			0.0188	0.1326
	1	5	0.0109	-0.1651
			0.0189	-0.0865
			0.0270	-0.0832
			0.0345	-0.0774
			0.0411	-0.0698
			0.0470	-0.0607
			0.0520	-0.0504
			0.0561	-0.0394
			0.0594	-0.0276
			0.0618	-0.0155
			0.0633	-0.0031
			0.0639	0.0092
			0.0636	0.0215
			0.0623	0.0333
			0.0602	0.0447
			0.0570	0.0552
			0.0529	0.0648
			0.1681	0.4500
	1	9	-0.0167	-0.2247

N	R1	R2	MU	SIGMA
24	1	9	0.0054	-0.1155
			0.0147	-0.1097
			0.0237	-0.1007
			0.0322	-0.0891
			0.0400	-0.0758
			0.0472	-0.0608
			0.0535	-0.0452
			0.0590	-0.0286
			0.0636	-0.0118
			0.0673	0.0052
			0.0699	0.0221
			0.0715	0.0385
			0.4686	0.7960
	1	13	-0.0969	-0.3415
			-0.0321	-0.1702
			-0.0183	-0.1580
			-0.0039	-0.1411
			0.0106	-0.1207
			0.0250	-0.0979
			0.0388	-0.0733
			0.0519	-0.0476
			0.0642	-0.0214
			0.9608	1.1717
	1	17	-0.3845	-0.6459
			-0.1598	-0.3056
			-0.1261	-0.2724
			-0.0886	-0.2311
			-0.0492	-0.1844
			1.8082	1.6393
	1	21	-3.9332	-3.3253
			4.9332	3.3253
	2	2	0.0411	-0.2180
			0.0308	-0.0742
			0.0379	-0.0696
			0.0441	-0.0632
			0.0495	-0.0554
			0.0539	-0.0467
			0.0575	-0.0371
			0.0602	-0.0269
			0.0620	-0.0163
			0.0629	-0.0055
			0.0629	0.0055
			0.0620	0.0163

N	R1	R2	MU	SIGMA
24	2	2	0.0602	0.0269
			0.0575	0.0371
			0.0539	0.0467
			0.0495	0.0554
			0.0441	0.0632
			0.0379	0.0696
			0.0308	0.0742
			0.0411	0.2180
	2	6	0.0236	-0.2804
			0.0252	-0.0941
			0.0329	-0.0876
			0.0398	-0.0788
			0.0459	-0.0683
			0.0512	-0.0566
			0.0557	-0.0438
			0.0592	-0.0305
			0.0620	-0.0165
			0.0638	-0.0025
			0.0647	0.0116
			0.0646	0.0255
			0.0637	0.0390
			0.0617	0.0518
			0.0588	0.0637
			0.2272	0.5674
	2	10	-0.0332	-0.3974
			0.0080	-0.1296
			0.0179	-0.1185
			0.0274	-0.1044
			0.0364	-0.0881
			0.0446	-0.0702
			0.0523	-0.0510
			0.0590	-0.0312
			0.0648	-0.0109
			0.0697	0.0094
			0.0735	0.0295
			0.5797	0.9625
	2	14	-0.2109	-0.6525
			-0.0427	-0.2025
			-0.0245	-0.1795
			-0.0057	-0.1521
			0.0133	-0.1214
			0.0320	-0.0887
			0.0500	-0.0546
			1.1886	1.4513
	2	18	-1.0801	-1.5764

N	R1	R2	MU	SIGMA
24	2	18	-0.2735	-0.4482
			-0.2070	-0.3739
			2.5606	2.3985
	2	20	-4.6316	-4.7612
			5.6316	4.7612
	3	3	0.0706	-0.3187
			0.0380	-0.0777
			0.0442	-0.0706
			0.0496	-0.0620
			0.0541	-0.0522
			0.0577	-0.0415
			0.0604	-0.0301
			0.0622	-0.0183
			0.0631	-0.0061
			0.0631	0.0061
			0.0622	0.0183
			0.0604	0.0301
			0.0577	0.0415
			0.0541	0.0522
			0.0496	0.0620
			0.0442	0.0706
			0.0380	0.0777
			0.0706	0.3187
	3	7	0.0381	-0.4253
			0.0308	-0.1013
			0.0380	-0.0910
			0.0445	-0.0788
			0.0503	-0.0650
			0.0551	-0.0502
			0.0592	-0.0343
			0.0623	-0.0182
			0.0646	-0.0016
			0.0658	0.0149
			0.0662	0.0311
			0.0656	0.0468
			0.0639	0.0616
			0.2956	0.7113
	3	11	-0.0671	-0.6370
			0.0090	-0.1452
			0.0201	-0.1273
			0.0307	-0.1068
			0.0409	-0.0841
			0.0503	-0.0601

N	R1	R2	MU	SIGMA
24	3	11	0.0589	-0.0351
			0.0666	-0.0097
			0.0733	0.0157
			0.7173	1.1895
	3	15	-0.4488	-1.1881
			-0.0638	-0.2505
			-0.0370	-0.2099
			-0.0093	-0.1649
			0.0184	-0.1168
			1.5405	1.9302
	3	19	-4.8814	-6.0460
			5.8814	6.0460
	4	4	0.1064	-0.4393
			0.0444	-0.0805
			0.0499	-0.0708
			0.0544	-0.0597
			0.0581	-0.0474
			0.0608	-0.0345
			0.0626	-0.0209
			0.0635	-0.0070
			0.0635	0.0070
			0.0626	0.0209
			0.0608	0.0345
			0.0581	0.0474
			0.0544	0.0597
			0.0499	0.0708
			0.0444	0.0805
			0.1064	0.4393
	4	8	0.0508	-0.6133
			0.0355	-0.1085
			0.0427	-0.0935
			0.0489	-0.0771
			0.0545	-0.0587
			0.0590	-0.0400
			0.0629	-0.0202
			0.0657	-0.0004
			0.0676	0.0195
			0.0684	0.0389
			0.0683	0.0578
			0.3757	0.8957
	4	12	-0.1387	-0.9959
			0.0079	-0.1644

N	R1	R2	MU	SIGMA
24	4	12	0.0213	-0.1368
			0.0344	-0.1066
			0.0468	-0.0745
			0.0585	-0.0413
			0.0693	-0.0076
			0.9004	1.5272
	4	16	-1.0728	-2.3838
			-0.1149	-0.3471
			-0.0663	-0.2675
			2.2540	2.9984
	5	5	0.1476	-0.5883
			0.0503	-0.0828
			0.0549	-0.0698
			0.0586	-0.0556
			0.0614	-0.0403
			0.0632	-0.0245
			0.0641	-0.0082
			0.0641	0.0082
			0.0632	0.0245
			0.0614	0.0403
			0.0586	0.0556
			0.0549	0.0698
			0.0503	0.0828
			0.1476	0.5883
	5	9	0.0566	-0.8710
			0.0397	-0.1158
			0.0470	-0.0947
			0.0533	-0.0722
			0.0589	-0.0481
			0.0636	-0.0236
			0.0673	0.0015
			0.0700	0.0263
			0.0717	0.0507
			0.4720	1.1470
	5	13	-0.3003	-1.6117
			0.0030	-0.1922
			0.0215	-0.1479
			0.0395	-0.1010
			0.0570	-0.0526
			1.1793	2.1054
	5	17	-4.4530	-8.1621
			5.4530	8.1621
	6	6	0.1937	-0.7798

N	R1	R2	MU	SIGMA
24	6	6	0.0556	-0.0842
			0.0594	-0.0668
			0.0622	-0.0488
			0.0641	-0.0294
			0.0650	-0.0099
			0.0650	0.0099
			0.0641	0.0294
			0.0622	0.0488
			0.0594	0.0668
			0.0556	0.0842
			0.1937	0.7798
	6	10	0.0446	-1.2555
			0.0433	-0.1236
			0.0512	-0.0933
			0.0582	-0.0616
			0.0644	-0.0287
			0.0696	0.0044
			0.0738	0.0375
			0.5949	1.5209
	6	16	-3.9065	-8.9934
			4.9065	8.9934
	7	7	0.2445	-1.0411
			0.0605	-0.0841
			0.0634	-0.0609
			0.0653	-0.0371
			0.0663	-0.0124
			0.0663	0.0124
			0.0653	0.0371
			0.0634	0.0609
			0.0605	0.0841
			0.2445	1.0411
	7	11	-0.0123	-1.9153
			0.0463	-0.1324
			0.0562	-0.0860
			0.0651	-0.0382
			0.0730	0.0101
			0.7716	2.1619
	7	15	-3.2020	-9.6736
			4.2020	9.6736
	8	8	0.2999	-1.4305
			0.0650	-0.0813

N	R1	R2	MU	SIGMA
24	8	8	0.0671	-0.0491
			0.0680	-0.0165
			0.0680	0.0165
			0.0671	0.0492
			0.0650	0.0813
			0.2999	1.4305
	8	12	-0.2140	-3.3940
			0.0487	-0.1439
			0.0643	-0.0604
			1.1010	3.5983
	9	9	0.3603	-2.0987
			0.0693	-0.0717
			0.0704	-0.0240
			0.0704	0.0240
			0.0693	0.0717
			0.3603	2.0987
	9	13	-1.4651	-10.5805
			2.4651	10.5805
	10	10	0.4265	-3.5968
			0.0735	-0.0420
			0.0735	0.0420
			0.4265	3.5968
	10	12	-0.4965	-10.8072
			1.4965	10.8072
	11	11	0.5000	-10.8828
			0.5000	10.8828
25	0	0	0.0044	-0.0573
			0.0131	-0.0618
			0.0212	-0.0624
			0.0286	-0.0606
			0.0352	-0.0571
			0.0411	-0.0523
			0.0462	-0.0465
			0.0505	-0.0399
			0.0541	-0.0326
			0.0568	-0.0249
			0.0588	-0.0168
			0.0600	-0.0084
			0.0604	0.

N	R1	R2	MU	SIGMA
25	0	0	0.0600	0.0084
			0.0588	0.0168
			0.0568	0.0249
			0.0541	0.0326
			0.0505	0.0399
			0.0462	0.0465
			0.0411	0.0523
			0.0352	0.0571
			0.0286	0.0606
			0.0212	0.0624
			0.0131	0.0618
			0.0044	0.0573
	1	0	0.0178	-0.1218
			0.0213	-0.0645
			0.0287	-0.0628
			0.0354	-0.0592
			0.0412	-0.0543
			0.0463	-0.0483
			0.0506	-0.0414
			0.0542	-0.0339
			0.0569	-0.0259
			0.0588	-0.0175
			0.0600	-0.0089
			0.0604	-0.0001
			0.0600	0.0086
			0.0588	0.0173
			0.0567	0.0257
			0.0540	0.0337
			0.0504	0.0412
			0.0461	0.0481
			0.0409	0.0542
			0.0350	0.0591
			0.0284	0.0628
			0.0210	0.0646
			0.0129	0.0640
			0.0043	0.0594
	6	0	0.2105	-0.4851
			0.0550	-0.0566
			0.0580	-0.0473
			0.0602	-0.0372
			0.0615	-0.0265
			0.0619	-0.0154
			0.0616	-0.0041
			0.0604	0.0073
			0.0584	0.0188

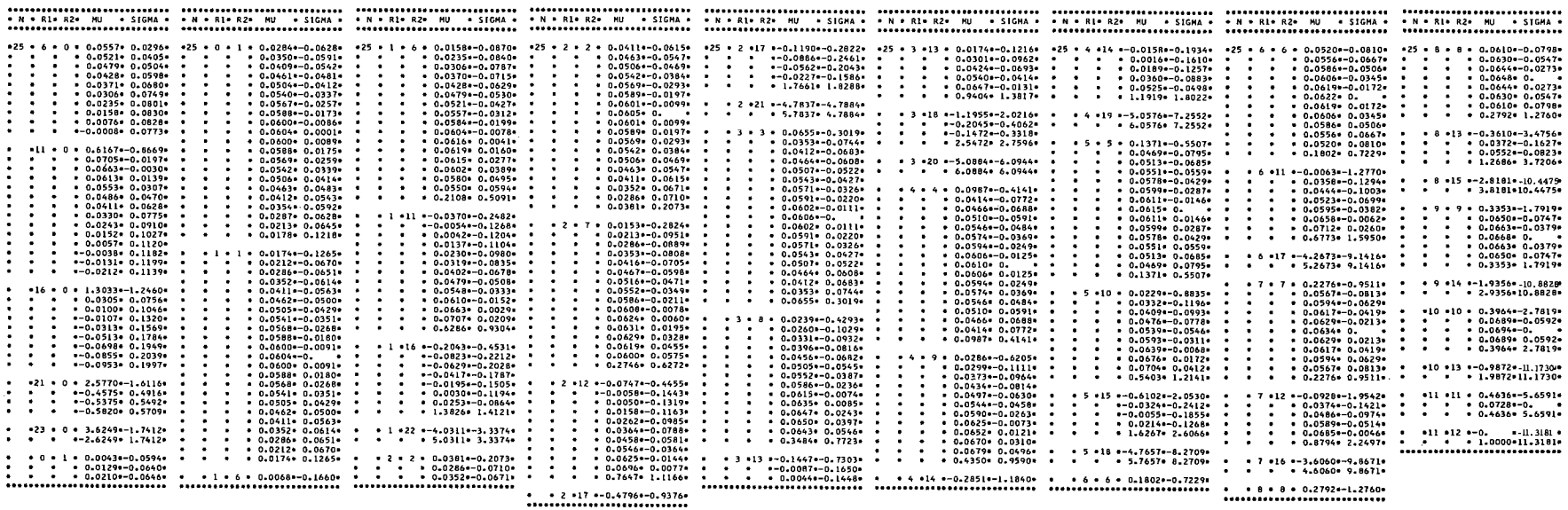


TABLE 3

VARIANCES, COVARIANCES AND PERCENTAGE EFFICIENCIES OF THE BEST LINEAR UNBIASED ESTIMATES OF THE MEAN AND STANDARD DEVIATION FOR CENSORED SAMPLES UP TO SIZE TWENTY-FIVE FROM A LOGISTIC DISTRIBUTION

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
2	0	0	0.5000	0.6449	100.00	100.00	0.
3	0	0	0.3260	0.3333	100.00	100.00	0.
	1	0	0.3921	0.7198	83.15	46.31	-0.1598
4	0	0	0.2410	0.2254	100.00	100.00	0.
	1	0	0.2553	0.3517	94.42	64.09	-0.0424
	2	0	0.4313	0.7772	55.88	29.00	-0.3161
	0	1	0.2553	0.3517	94.42	64.09	0.0424
	0	2	0.4313	0.7772	55.88	29.00	0.3161
	1	1	0.2599	0.7392	92.73	30.49	0.
5	0	0	0.1910	0.1704	100.00	100.00	0.
	1	0	0.1960	0.2320	97.45	73.43	-0.0176
	2	0	0.2363	0.3727	80.81	45.71	-0.0929
	3	0	0.5232	0.8165	36.50	20.87	-0.4497
	0	1	0.1960	0.2320	97.45	73.43	0.0176
	1	1	0.1984	0.3565	96.23	47.79	0.
	1	2	0.2401	0.7741	79.54	22.01	0.1319
	2	1	0.2401	0.7741	79.54	22.01	-0.1319
6	0	0	0.1581	0.1370	100.00	100.00	0.
	1	0	0.1603	0.1731	98.61	79.13	-0.0090
	2	0	0.1751	0.2424	90.26	56.51	-0.0410
	3	0	0.2432	0.3898	64.99	35.14	-0.1412
	4	0	0.6347	0.8444	24.90	16.22	-0.5631
	0	1	0.1603	0.1731	98.61	79.13	0.0090
	1	1	0.1616	0.2334	97.79	58.69	0.
	1	2	0.1751	0.3701	90.24	37.01	0.0430
	1	3	0.2692	0.8039	58.71	17.04	0.2450
	2	2	0.1795	0.7941	88.05	17.25	0.
7	0	0	0.1348	0.1145	100.00	100.00	0.
	1	0	0.1359	0.1381	99.16	82.93	-0.0052
	2	0	0.1428	0.1789	94.40	64.00	-0.0219
	3	0	0.1685	0.2520	79.97	45.45	-0.0653
	4	0	0.2637	0.4032	51.11	28.40	-0.1853
	5	0	0.7528	0.8650	17.90	13.24	-0.6605
	0	1	0.1359	0.1381	99.16	82.93	0.0052
	1	1	0.1367	0.1733	98.60	66.08	0.
	1	2	0.1428	0.2403	94.37	47.65	0.0203
	1	3	0.1712	0.3834	78.73	29.87	0.0840
	1	4	0.3225	0.8277	41.80	13.84	0.3432
	2	2	0.1458	0.3782	92.45	30.28	0.
	2	3	0.1725	0.8150	78.12	14.05	0.1081
8	0	0	0.1175	0.0984	100.00	100.00	0.
	1	0	0.1181	0.1149	99.45	85.62	-0.0033
	2	0	0.1218	0.1417	96.48	69.46	-0.0131
	3	0	0.1339	0.1850	87.71	53.21	-0.0361
	4	0	0.1707	0.2601	68.83	37.83	-0.0886
	5	0	0.2916	0.4140	40.28	23.77	-0.2251
	6	0	0.8716	0.8809	13.48	11.17	-0.7455
	0	1	0.1181	0.1149	99.45	85.62	0.0033
	1	1	0.1186	0.1379	99.05	71.38	0.
	1	2	0.1219	0.1773	96.41	55.50	0.0113
	1	3	0.1343	0.2479	87.46	39.69	0.0410
	1	4	0.1789	0.3950	65.67	24.92	0.1220
	1	5	0.3881	0.8467	30.27	11.62	0.4294
	2	2	0.1238	0.2446	94.93	40.24	0.
	2	3	0.1343	0.3879	87.44	25.37	0.0390
	2	4	0.1930	0.8334	60.86	11.81	0.2006
	3	3	0.1378	0.8297	85.26	11.86	0.
9	0	0	0.1041	0.0863	100.00	100.00	0.
	1	0	0.1045	0.0984	99.62	87.63	-0.0022
	2	0	0.1066	0.1172	97.64	73.58	-0.0085
	3	0	0.1132	0.1457	91.96	59.21	-0.0222
	4	0	0.1309	0.1904	79.55	45.31	-0.0503
	5	0	0.1783	0.2670	58.40	32.31	-0.1105
	6	0	0.3237	0.4226	32.16	20.41	-0.2610
	7	0	0.9886	0.8935	10.53	9.65	-0.8206
	0	1	0.1045	0.0984	99.62	87.63	0.0022
	1	1	0.1048	0.1145	99.33	75.33	0.
	1	2	0.1067	0.1403	97.55	61.47	0.0070
	1	3	0.1132	0.1821	91.92	47.37	0.0235
	1	4	0.1327	0.2549	78.45	33.84	0.0612
	1	5	0.1938	0.4047	53.71	21.32	0.1569
	1	6	0.4601	0.8621	22.62	10.01	0.5059
	2	2	0.1080	0.1798	96.43	47.99	0.
	2	3	0.1135	0.2502	91.75	34.48	0.0197
	2	4	0.1339	0.3971	77.72	21.73	0.0745
	2	5	0.2289	0.8490	45.47	10.16	0.2817
	3	3	0.1161	0.3949	89.63	21.85	0.
	3	4	0.1345	0.8439	77.37	10.22	0.0909
10	0	0	0.0935	0.0768	100.00	100.00	0.
	1	0	0.0937	0.0861	99.72	89.17	-0.0016
	2	0	0.0950	0.1000	98.34	76.80	-0.0058
	3	0	0.0989	0.1200	94.46	63.97	-0.0147
	4	0	0.1086	0.1495	86.03	51.35	-0.0316
	5	0	0.1317	0.1952	70.96	39.34	-0.0640
	6	0	0.1893	0.2728	49.36	28.15	-0.1309
	7	0	0.3579	0.4297	26.11	17.87	-0.2936
	8	0	1.1025	0.9037	8.48	8.50	-0.8877
	0	1	0.0937	0.0861	99.72	89.17	0.0016
	1	1	0.0939	0.0980	99.51	78.38	0.
	1	2	0.0951	0.1161	98.25	66.14	0.0047
	1	3	0.0989	0.1436	94.46	53.49	0.0149
	1	4	0.1091	0.1868	85.64	41.11	0.0359
	1	5	0.1357	0.2611	68.84	29.41	0.0804
	1	6	0.2133	0.4130	43.81	18.60	0.1889
	1	7	0.5351	0.8748	17.46	8.78	0.5744
	2	2	0.0960	0.1418	97.39	54.14	0.
	2	3	0.0992	0.1834	94.20	41.88	0.0116
	2	4	0.1092	0.2559	85.56	30.01	0.0386
	2	5	0.1407	0.4052	66.41	18.95	0.1072
	2	6	0.2739	0.8622	34.12	8.91	0.3538
	3	3	0.1011	0.2543	92.43	30.20	0.
	3	4	0.1093	0.4021	85.49	19.10	0.0348
	3	5	0.1494	0.8565	62.54	8.97	0.1698
	4	4	0.1120	0.8548	83.44	8.98	0.
11	0	0	0.0848	0.0692	100.00	100.00	0.
	1	0	0.0850	0.0766	99.79	90.38	-0.0011
	2	0	0.0858	0.0872	98.78	79.38	-0.0042
	3	0	0.0883	0.1020	96.02	67.83	-0.0102
	4	0	0.0941	0.1229	90.09	56.32	-0.0212
	5	0	0.1069	0.1530	79.30	45.21	-0.0409
	6	0	0.1353	0.1993	62.68	34.71	-0.0771
	7	0	0.2027	0.2776	41.82	24.92	-0.1498
	8	0	0.3932	0.4357	21.56	15.88	-0.3233
	9	0	1.2129	0.9121	6.99	7.59	-0.9482
	0	1	0.0850	0.0766	99.79	90.38	0.0011
	1	1	0.0851	0.0856	99.63	80.80	0.
	1	2	0.0859	0.0990	98.70	69.87	0.0033
	1	3	0.0883	0.1184	96.02	58.45	0.0101
	1	4	0.0943	0.1469	89.95	47.10	0.0231
	1	5	0.1082	0.1911	78.33	36.20	0.0480
	1	6	0.1421	0.2666	59.68	25.96	0.0985
	1	7	0.2358	0.4200	35.96	16.48	0.2184
	1	8	0.6112	0.8854	13.87	7.82	0.6364
	2	2	0.0865	0.1171	98.03	59.11	0.
	2	3	0.0885	0.1443	95.74	47.95	0.0075
	2	4	0.0943	0.1872	89.95	36.96	0.0231
	2	5	0.1093	0.2611	77.60	26.50	0.0564
	2	6	0.1523	0.4124	55.67	16.78	0.1371
	4	4	0.0968	0.4077	87.54	16.97	0.
	4	5	0.1102	0.8650	76.91	8.00	0.0782
12	0	0	0.0776	0.0630	100.00	100.00	0.
	1	0	0.0777	0.0689	99.84	91.37	-0.0009
	2	0	0.0783	0.0773	99.08	81.47	-0.0031
	3	0	0.0799	0.0887	97.04	71.01	-0.0074
	4	0	0.0837	0.1041	92.73	60.47	-0.0150
	5	0	0.0914	0.1255	84.86	50.17	-0.0279
	6	0	0.1073	0.1562	72.31	40.31	-0.0499
	7	0	0.1407	0.2030	55.12	31.02	-0.0895
	8	0	0.2176	0.2818	35.66	22.34	-0.1673
	9	0	0.4290	0.4407	18.08	14.29	-0.3506
	10	0	1.3195	0.9192	5.88	6.85	-1.0034
	0	1	0.0777	0.0689	99.84	91.37	0.0009
	1	1	0.0778	0.0761	99.71	82.76	0.
	1	2	0.0784	0.0864	99.01	72.92	0.0024
	1	3	0.0799	0.1007	97.04	62.54	0.0072
	1	4	0.0837	0.1208	92.68	52.11	0.0159
	1	5	0.0919	0.1501	84.41	41.96	0.0313
	1	6	0.1097	0.1950	70.71	32.29	0.0596
	1	7	0.1506	0.2713	51.50	23.21	0.1155
	1	8	0.2600	0.4260	29.83	14.78	0.2456
	1	9	0.6873	0.8943	11.29	7.04	0.6929
	2	2	0.0788	0.0996	98.48	63.19	0.
	2	3	0.0802	0.1188	96.77	53.00	0.0052
	2	4	0.0837	0.1471	92.66	42.82	0.0152
	2	5	0.0921	0.1909	84.20	32.98	0.0344
	2	6	0.1124	0.2659	69.05	23.68	0.0733
	2	7	0.1671	0.4187	46.42	15.04	0.1648
	2	8	0.3778	0.8830	20.54	7.13	0.4775
	3	3	0.0811	0.1461	95.61	43.09	0.
	3	4	0.0841	0.1891	92.26	33.29	0.0113
	3	5	0.0922	0.2632	84.18	23.92	0.0357
	3	6	0.1156	0.4149	67.11	15.18	0.0953
	3	7	0.2085	0.8772	37.20	7.18	0.3026
	4	4	0.0858	0.2624	90.40	24.00	0.
	4	5	0.0923	0.4132	84.06	15.24	0.0312
	4	6	0.1215	0.8743	63.87	7.20	0.1472
	5	5	0.0944	0.8734	82.17	7.21	0.
13	0	0	0.0715	0.0578	100.00	100.00	0.
	1	0	0.0716	0.0627	99.88	92.18	-0.0007
	2	0	0.0720	0.0694	99.29	83.20	-0.0023
	3	0	0.0732	0.0784	97.74	73.66	-0.0056
	4	0	0.0757	0.0903	94.51	63.96	-0.0110
	5	0	0.0807	0.1062	88.64	54.39	-0.0199
	6	0	0.0904	0.1280	79.13	45.15	-0.0344
	7	0	0.1092	0.1590	65.47	36.33	-0.0586
	8	0	0.1476	0.2062	48.45	28.02	-0.1012
	9	0	0.2334	0.2855	30.64	20.24	-0.1837
	10	0	0.4647	0.4450	15.39	12.98	-0.3758
	11	0	1.4224	0.9252	5.03	6.24	-1.0539
	0	1	0.0716	0.0627	99.88	92.18	0.0007
	1	1	0.0717	0.0685	99.77	84.38	0.
	1	2	0.0721	0.0766	99.23	75.44	0.0018
	1	3	0.0732	0.0876	97.73	65.96	0.0053
	1	4	0.0757	0.1025	94.49	56.34	0.0114
	1	5	0.0809	0.1232	88.42	46.88	0.0218
	1	6	0.0913	0.1530	78.28	37.76	0.0394
	1	7	0.1129	0.1985	63.31	29.10	0.0708
	1	8	0.1608	0.2755	44.46	20.97	0.1315
	1	9	0.2855	0.4312	25.05	13.40	0.2708
	1	10	0.7627	0.9020	9.38	6.40	0.7448
	2	2	0.0724	0.0867	98.80	66.59	0.
	2	3	0.0733	0.1009	97.49	57.24	0.0037
	2	4	0.0757	0.1208	94.45	47.80	0.0106
	2	5	0.0809	0.1498	88.38	38.57	0.0228
	2	6	0.0922	0.1944	77.58	29.72	0.0452
	2	7	0.1177	0.2702	60.75	21.38	0.0892
	2	8	0.1842	0.4242	38.82	13.62	0.1904
	2	9	0.4331	0.8913	16.51	6.48	0.5314
	3	3	0.0741	0.1201	96.54	48.09	0.
	3	4	0.0760	0.1484	94.02	38.94	0.0075
	3	5	0.0809	0.1923	88.36	30.05	0.0221
	3	6	0.0928	0.2673	77.07	21.61	0.0520
	3	7	0.1248	0.4203	57.28	13.74	0.1220
	3	8	0.2463	0.8856	29.03	6.52	0.3597
	4	4	0.0773	0.1916	92.44	30.15	0.
	4	5	0.0813	0.2660	87.99	21.71	0.0171
	4	6	0.0932	0.4184	76.74	13.81	0.0597
	4	7	0.1412	0.8825	50.63	6.55	0.2090
	5	5	0.0832	0.4178	85.96	13.83	0.
	5	6	0.0933	0.8812	76.60	6.56	0.0686
14	0	0	0.0663	0.0534	100.00	100.00	0.
	1	0	0.0664	0.0575	99.90	92.86	-0.0005
	2	0	0.0667	0.0630	99.44	84.66	-0.0018
	3	0	0.0675	0.0703	98.23	75.91	-0.0043
	4	0	0.0692	0.0797	95.75	66.95	-0.0083
	5	0	0.0726	0.0919	91.28	58.03	-0.0148
	6	0	0.0789	0.1081	83.99	49.34	-0.0249
	7	0	0.0905	0.1302	73.24	40.99	-0.0409
	8	0	0.1123	0.1615	59.05	33.04	-0.0670
	9	0	0.1554	0.2089	42.67	25.54	-0.1122
	10	0	0.2498	0.2886	26.54	18.49	-0.1989
	11	0	0.5001	0.4487	13.26	11.89	-0.3991
	12	0	1.5218	0.9304	4.36	5.73	-1.1006
	0	1	0.0664	0.0575	99.90	92.86	0.0005
	1	1	0.0664	0.0622	99.82	85.73	0.
	1	2	0.0667	0.0688	99.39	77.56	0.0014
	1	3	0.0675	0.0775	98.22	68.85	0.0040
	1	4	0.0693	0.0890	95.75	59.95	0.0085
	1	5	0.0727	0.1044	91.17	51.12	0.0158
	1	6	0.0794	0.1255	83.52	42.52	0.0276
	1	7	0.0921	0.1556	71.96	34.28	0.0473
	1	8	0.1175	0.2016	56.44	26.46	0.0814

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	1	9	0.1722	0.2792	38.52	19.11	0.1465
	1	10	0.3116	0.4357	21.28	12.25	0.2942
	1	11	0.8369	0.9087	7.92	5.87	0.7927
	2	2	0.0670	0.0768	99.04	69.46	0.
	2	3	0.0677	0.0877	98.01	60.84	0.0028
	2	4	0.0693	0.1025	95.68	52.08	0.0077
	2	5	0.0727	0.1229	91.17	43.41	0.0161
	2	6	0.0797	0.1524	83.24	35.02	0.0304
	2	7	0.0938	0.1975	70.67	27.01	0.0556
	2	8	0.1247	0.2740	53.18	19.47	0.1042
	2	9	0.2028	0.4290	32.69	12.44	0.2143
	2	10	0.4893	0.8985	13.55	5.94	0.5810
	3	3	0.0682	0.1019	97.23	52.38	0.
	3	4	0.0696	0.1218	95.27	43.82	0.0053
	3	5	0.0728	0.1507	91.10	35.41	0.0149
	3	6	0.0798	0.1952	83.12	27.33	0.0325
	3	7	0.0956	0.2711	69.33	19.68	0.0672
	3	8	0.1366	0.4252	48.54	12.55	0.1467
	3	9	0.2870	0.8930	23.10	5.98	0.4119
	4	4	0.0706	0.1501	93.95	35.54	0.
	4	5	0.0732	0.1942	90.61	27.47	0.0107
	4	6	0.0798	0.2696	83.12	19.79	0.0330
	4	7	0.0979	0.4231	67.73	12.61	0.0858
	4	8	0.1667	0.8899	39.77	6.00	0.2650
	5	5	0.0747	0.2691	88.75	19.83	0.
	5	6	0.0799	0.4222	82.96	12.64	0.0282
	5	7	0.1021	0.8883	64.95	6.01	0.1299
	6	6	0.0816	0.8877	81.22	6.01	0.
15	0	0	0.0618	0.0496	100.00	100.00	0.
	1	0	0.0619	0.0531	99.92	93.43	-0.0004
	2	0	0.0621	0.0577	99.55	85.90	-0.0015
	3	0	0.0627	0.0637	98.59	77.83	-0.0034
	4	0	0.0640	0.0713	96.64	69.52	-0.0065
	5	0	0.0664	0.0810	93.16	61.19	-0.0113
	6	0	0.0707	0.0935	87.49	53.02	-0.0186
	7	0	0.0782	0.1099	79.02	45.10	-0.0298
	8	0	0.0917	0.1322	67.43	37.50	-0.0471
	9	0	0.1162	0.1637	53.18	30.28	-0.0749
	10	0	0.1639	0.2114	37.72	23.45	-0.1226
	11	0	0.2666	0.2914	23.19	17.01	-0.2132
	12	0	0.5350	0.4520	11.55	10.97	-0.4208
	13	0	1.6177	0.9349	3.82	5.30	-1.1439

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	0	1	0.0619	0.0531	99.92	93.43	0.0004
	1	1	0.0619	0.0571	99.85	86.88	0.
	1	2	0.0621	0.0625	99.50	79.37	0.0011
	1	3	0.0627	0.0695	98.58	71.33	0.0031
	1	4	0.0640	0.0786	96.64	63.06	0.0065
	1	5	0.0664	0.0905	93.11	54.80	0.0119
	1	6	0.0709	0.1062	87.23	46.69	0.0202
	1	7	0.0790	0.1276	78.25	38.86	0.0334
	1	8	0.0940	0.1581	65.76	31.36	0.0548
	1	9	0.1230	0.2044	50.25	24.25	0.0915
	1	10	0.1843	0.2824	33.54	17.55	0.1606
	1	11	0.3380	0.4397	18.29	11.27	0.3161
	1	12	0.9097	0.9145	6.79	5.42	0.8371
	2	2	0.0623	0.0689	99.21	71.90	0.
	2	3	0.0628	0.0775	98.39	63.94	0.0021
	2	4	0.0640	0.0889	96.57	55.77	0.0058
	2	5	0.0664	0.1041	93.11	47.63	0.0118
	2	6	0.0710	0.1249	87.12	39.68	0.0216
	2	7	0.0797	0.1548	77.60	32.03	0.0377
	2	8	0.0967	0.2004	63.90	24.74	0.0656
	2	9	0.1329	0.2774	46.51	17.87	0.1184
	2	10	0.2225	0.4333	27.78	11.44	0.2365
	2	11	0.5457	0.9049	11.33	5.48	0.6270
	3	3	0.0632	0.0884	97.74	56.08	0.
	3	4	0.0643	0.1031	96.19	48.08	0.0039
	3	5	0.0665	0.1235	93.01	40.13	0.0106
	3	6	0.0710	0.1529	87.11	32.42	0.0221
	3	7	0.0802	0.1980	77.08	25.03	0.0425
	3	8	0.1002	0.2745	61.69	18.06	0.0816
	3	9	0.1502	0.4296	41.16	11.54	0.1697
	3	10	0.3297	0.8995	18.75	5.51	0.4601
	4	4	0.0650	0.1231	95.07	40.28	0.
	4	5	0.0668	0.1521	92.47	32.60	0.0073
	4	6	0.0710	0.1968	87.07	25.19	0.0209
	4	7	0.0806	0.2728	76.71	18.17	0.0479
	4	8	0.1054	0.4274	58.63	11.60	0.1099
	4	9	0.1962	0.8964	31.50	5.53	0.3162
	5	5	0.0680	0.1964	90.85	25.24	0.
	5	6	0.0713	0.2721	86.65	18.22	0.0158
	5	7	0.0808	0.4263	76.47	11.63	0.0541
	5	8	0.1176	0.8947	52.56	5.54	0.1853
	6	6	0.0730	0.4259	84.72	11.64	0.
	6	7	0.0809	0.8939	76.37	5.55	0.0611
16	0	0	0.0579	0.0463	100.00	100.00	0.

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	1	0	0.0579	0.0493	99.93	93.93	-0.0003
	2	0	0.0581	0.0532	99.63	86.97	-0.0012
	3	0	0.0586	0.0582	98.86	79.49	-0.0027
	4	0	0.0595	0.0645	97.30	71.75	-0.0051
	5	0	0.0612	0.0724	94.54	63.96	-0.0088
	6	0	0.0643	0.0823	90.06	56.25	-0.0143
	7	0	0.0695	0.0950	83.33	48.74	-0.0224
	8	0	0.0783	0.1116	73.92	41.49	-0.0345
	9	0	0.0936	0.1340	61.88	34.54	-0.0530
	10	0	0.1209	0.1657	47.90	27.94	-0.0824
	11	0	0.1729	0.2136	33.48	21.67	-0.1324
	12	0	0.2835	0.2938	20.42	15.75	-0.2266
	13	0	0.5693	0.4549	10.17	10.18	-0.4411
	14	0	1.7104	0.9389	3.38	4.93	-1.1843
	0	1	0.0579	0.0493	99.93	93.93	0.0003
	1	1	0.0580	0.0527	99.88	87.86	0.
	1	2	0.0581	0.0572	99.59	80.92	0.0009
	1	3	0.0586	0.0630	98.84	73.46	0.0025
	1	4	0.0595	0.0704	97.30	65.76	0.0051
	1	5	0.0613	0.0798	94.52	58.01	0.0091
	1	6	0.0644	0.0919	89.92	50.36	0.0153
	1	7	0.0699	0.1079	82.86	42.91	0.0247
	1	8	0.0795	0.1295	72.85	35.74	0.0391
	1	9	0.0967	0.1603	59.87	28.88	0.0621
	1	10	0.1293	0.2069	44.78	22.37	0.1011
	1	11	0.1970	0.2853	29.39	16.23	0.1739
	1	12	0.3646	0.4432	15.88	10.44	0.3366
	1	13	0.9811	0.9196	5.90	5.03	0.8785
	2	2	0.0583	0.0625	99.35	74.01	0.
	2	3	0.0587	0.0695	98.68	66.61	0.0017
	2	4	0.0595	0.0785	97.23	58.99	0.0045
	2	5	0.0613	0.0902	94.51	51.34	0.0089
	2	6	0.0644	0.1057	89.88	43.80	0.0159
	2	7	0.0701	0.1268	82.53	36.49	0.0270
	2	8	0.0806	0.1570	71.79	29.48	0.0448
	2	9	0.1006	0.2030	57.53	22.80	0.0751
	2	10	0.1421	0.2805	40.75	16.50	0.1317
	2	11	0.2429	0.4371	23.84	10.59	0.2574
	2	12	0.6021	0.9105	9.62	5.08	0.6697
	3	3	0.0590	0.0781	98.14	59.30	0.
	3	4	0.0598	0.0894	96.88	51.80	0.0029
	3	5	0.0613	0.1045	94.38	44.30	0.0078
	3	6	0.0644	0.1253	89.87	36.95	0.0158
	3	7	0.0703	0.1551	82.35	29.85	0.0291
	3	8	0.0818	0.2006	70.74	23.08	0.0520

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	3	9	0.1061	0.2776	54.58	16.67	0.0952
	3	10	0.1651	0.4335	35.06	10.68	0.1911
	3	11	0.3735	0.9054	15.50	5.11	0.5047
	4	4	0.0603	0.1041	95.94	44.46	0.
	4	5	0.0617	0.1246	93.86	37.16	0.0052
	4	6	0.0645	0.1540	89.77	30.05	0.0143
	4	7	0.0704	0.1992	82.28	23.24	0.0306
	4	8	0.0832	0.2759	69.62	16.78	0.0619
	4	9	0.1150	0.4313	50.33	10.73	0.1323
	4	10	0.2285	0.9023	25.34	5.13	0.3635
	5	5	0.0626	0.1537	92.46	30.12	0.
	5	6	0.0649	0.1986	89.21	23.31	0.0101
	5	7	0.0704	0.2749	82.28	16.84	0.0305
	5	8	0.0848	0.4300	68.27	10.76	0.0779
	5	9	0.1379	0.9005	41.97	5.14	0.2360
	6	6	0.0662	0.2746	87.40	16.86	0.
	6	7	0.0705	0.4294	82.11	10.78	0.0257
	6	8	0.0879	0.8995	65.84	5.15	0.1162
	7	7	0.0719	0.8992	80.50	5.15	0.
17	0	0	0.0544	0.0434	100.00	100.00	0.
	1	0	0.0545	0.0460	99.94	94.35	-0.0003
	2	0	0.0546	0.0494	99.69	87.89	-0.0010
	3	0	0.0550	0.0536	99.06	80.93	-0.0022
	4	0	0.0557	0.0589	97.80	73.71	-0.0041
	5	0	0.0570	0.0654	95.57	66.39	-0.0070
	6	0	0.0592	0.0734	91.98	59.12	-0.0112
	7	0	0.0629	0.0835	86.57	51.98	-0.0173
	8	0	0.0690	0.0964	78.93	45.06	-0.0262
	9	0	0.0790	0.1131	68.88	38.39	-0.0392
	10	0	0.0960	0.1357	56.68	32.00	-0.0588
	11	0	0.1260	0.1675	43.21	25.92	-0.0896
	12	0	0.1823	0.2156	29.87	20.14	-0.1416
	13	0	0.3005	0.2960	18.11	14.67	-0.2392
	14	0	0.6031	0.4574	9.03	9.49	-0.4602
	15	0	1.8001	0.9424	3.02	4.61	-1.2221
	0	1	0.0545	0.0460	99.94	94.35	0.0003
	1	1	0.0545	0.0489	99.90	88.71	0.
	1	2	0.0546	0.0528	99.66	82.27	0.0007
	1	3	0.0550	0.0576	99.05	75.33	0.0020
	1	4	0.0557	0.0637	97.80	68.13	0.0041
	1	5	0.0570	0.0714	95.56	60.84	0.0072
	1	6	0.0592	0.0810	91.90	53.61	0.0119

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	1	7	0.0631	0.0933	86.29	46.53	0.0188
	1	8	0.0696	0.1095	78.24	39.67	0.0290
	1	9	0.0806	0.1313	67.52	33.06	0.0445
	1	10	0.1000	0.1623	54.42	26.76	0.0691
	1	11	0.1361	0.2092	39.99	20.76	0.1102
	1	12	0.2101	0.2879	25.91	15.08	0.1865
	1	13	0.3911	0.4464	13.92	9.73	0.3559
	1	14	1.0509	0.9241	5.18	4.70	0.9173
	2	2	0.0547	0.0572	99.46	75.85	0.
	2	3	0.0550	0.0630	98.90	68.95	0.0013
	2	4	0.0557	0.0702	97.72	61.81	0.0035
	2	5	0.0570	0.0795	95.55	54.60	0.0070
	2	6	0.0592	0.0915	91.89	47.47	0.0122
	2	7	0.0632	0.1072	86.12	40.49	0.0201
	2	8	0.0701	0.1286	77.64	33.75	0.0322
	2	9	0.0824	0.1591	66.06	27.29	0.0516
	2	10	0.1053	0.2054	51.70	21.14	0.0841
	2	11	0.1519	0.2833	35.84	15.33	0.1444
	2	12	0.2637	0.4405	20.64	9.86	0.2770
	2	13	0.6580	0.9155	8.27	4.74	0.7097
	3	3	0.0553	0.0699	98.45	62.12	0.
	3	4	0.0559	0.0788	97.41	55.07	0.0023
	3	5	0.0571	0.0905	95.41	47.99	0.0060
	3	6	0.0593	0.1059	91.87	40.99	0.0118
	3	7	0.0633	0.1270	86.06	34.19	0.0210
	3	8	0.0706	0.1571	77.13	27.63	0.0358
	3	9	0.0845	0.2030	64.45	21.39	0.0611
	3	10	0.1129	0.2805	48.21	15.48	0.1080
	3	11	0.1810	0.4370	30.08	9.94	0.2113
	3	12	0.4181	0.9105	13.02	4.77	0.5463
	4	4	0.0563	0.0902	96.61	48.16	0.
	4	5	0.0574	0.1053	94.92	41.23	0.0039
	4	6	0.0594	0.1261	91.71	34.43	0.0104
	4	7	0.0633	0.1559	86.06	27.84	0.0211
	4	8	0.0709	0.2015	76.74	21.54	0.0399
	4	9	0.0871	0.2787	62.52	15.58	0.0751
	4	10	0.1262	0.4349	43.14	9.98	0.1533
	4	11	0.2626	0.9076	20.73	4.78	0.4073
	5	5	0.0581	0.1258	93.71	34.51	0.
	5	6	0.0597	0.1554	91.12	27.94	0.0070
	5	7	0.0633	0.2007	86.00	21.63	0.0197
	5	8	0.0712	0.2776	76.45	15.64	0.0443
	5	9	0.0911	0.4335	59.79	10.02	0.1000
	5	10	0.1617	0.9057	33.67	4.79	0.2826
	6	6	0.0608	0.2005	89.49	21.66	0.

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	6	7	0.0636	0.2772	85.55	15.67	0.0147
	6	8	0.0714	0.4328	76.28	10.03	0.0494
	6	9	0.1005	0.9046	54.19	4.80	0.1665
	7	7	0.0650	0.4326	83.73	10.04	0.
	7	8	0.0714	0.9041	76.21	4.80	0.0550
18	0	0	0.0514	0.0409	100.00	100.00	0.
	1	0	0.0514	0.0432	99.95	94.73	-0.0002
	2	0	0.0515	0.0461	99.74	88.70	-0.0008
	3	0	0.0518	0.0497	99.22	82.20	-0.0018
	4	0	0.0523	0.0542	98.18	75.43	-0.0034
	5	0	0.0533	0.0596	96.36	68.54	-0.0057
	6	0	0.0550	0.0663	93.44	61.67	-0.0090
	7	0	0.0577	0.0745	89.04	54.89	-0.0137
	8	0	0.0620	0.0847	82.80	48.27	-0.0204
	9	0	0.0690	0.0976	74.45	41.87	-0.0299
	10	0	0.0803	0.1145	64.00	35.71	-0.0437
	11	0	0.0990	0.1372	51.89	29.80	-0.0643
	12	0	0.1315	0.1691	39.07	24.17	-0.0965
	13	0	0.1919	0.2173	26.77	18.81	-0.1505
	14	0	0.3175	0.2980	16.18	13.72	-0.2511
	15	0	0.6362	0.4597	8.08	8.89	-0.4781
	16	0	1.8868	0.9455	2.72	4.32	-1.2576
	0	1	0.0514	0.0432	99.95	94.73	0.0002
	1	1	0.0514	0.0457	99.91	89.46	0.
	1	2	0.0515	0.0490	99.71	83.45	0.0006
	1	3	0.0518	0.0531	99.20	76.96	0.0016
	1	4	0.0523	0.0582	98.18	70.21	0.0033
	1	5	0.0533	0.0645	96.36	63.35	0.0058
	1	6	0.0550	0.0723	93.39	56.51	0.0094
	1	7	0.0578	0.0821	88.87	49.77	0.0147
	1	8	0.0624	0.0946	82.35	43.20	0.0222
	1	9	0.0699	0.1109	73.53	36.85	0.0333
	1	10	0.0823	0.1330	62.39	30.75	0.0498
	1	11	0.1039	0.1641	49.45	24.91	0.0757
	1	12	0.1434	0.2112	35.83	19.36	0.1189
	1	13	0.2235	0.2902	22.99	14.09	0.1984
	1	14	0.4175	0.4492	12.31	9.10	0.3740
	1	15	1.1192	0.9282	4.59	4.40	0.9538
	2	2	0.0516	0.0528	99.54	77.45	0.
	2	3	0.0519	0.0576	99.08	71.00	0.0011
	2	4	0.0524	0.0636	98.11	64.30	0.0028
	2	5	0.0533	0.0711	96.34	57.50	0.0055

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	2	6	0.0550	0.0806	93.39	50.73	0.0095
	2	7	0.0579	0.0927	88.79	44.08	0.0154
	2	8	0.0627	0.1087	82.00	37.61	0.0241
	2	9	0.0707	0.1303	72.62	31.37	0.0374
	2	10	0.0848	0.1610	60.58	25.39	0.0581
	2	11	0.1106	0.2075	46.47	19.70	0.0928
	2	12	0.1622	0.2858	31.67	14.30	0.1564
	2	13	0.2848	0.4436	18.04	9.22	0.2954
	2	14	0.7133	0.9199	7.20	4.44	0.7472
	3	3	0.0521	0.0633	98.69	64.61	0.
	3	4	0.0525	0.0705	97.83	57.98	0.0018
	3	5	0.0534	0.0797	96.19	51.27	0.0047
	3	6	0.0550	0.0916	93.36	44.62	0.0091
	3	7	0.0579	0.1073	88.77	38.10	0.0158
	3	8	0.0628	0.1286	81.77	31.78	0.0260
	3	9	0.0716	0.1590	71.74	25.71	0.0424
	3	10	0.0879	0.2052	58.47	19.92	0.0698
	3	11	0.1205	0.2830	42.63	14.44	0.1202
	3	12	0.1976	0.4402	26.00	9.29	0.2302
	3	13	0.4630	0.9152	11.10	4.47	0.5853
	4	4	0.0529	0.0795	97.14	51.45	0.
	4	5	0.0537	0.0911	95.74	44.87	0.0030
	4	6	0.0551	0.1065	93.17	38.37	0.0078
	4	7	0.0579	0.1276	88.76	32.03	0.0154
	4	8	0.0629	0.1578	81.64	25.91	0.0277
	4	9	0.0725	0.2037	70.85	20.07	0.0487
	4	10	0.0921	0.2813	55.80	14.53	0.0876
	4	11	0.1385	0.4381	37.10	9.33	0.1730
	4	12	0.2981	0.9123	17.23	4.48	0.4481
	5	5	0.0543	0.1063	94.70	38.46	0.
	5	6	0.0555	0.1272	92.58	32.15	0.0051
	5	7	0.0580	0.1571	88.62	26.02	0.0137
	5	8	0.0630	0.2028	81.61	20.16	0.0288
	5	9	0.0735	0.2802	69.91	14.59	0.0573
	5	10	0.0991	0.4367	51.87	9.36	0.1206
	5	11	0.1880	0.9104	27.33	4.49	0.3258
	6	6	0.0564	0.1569	91.15	26.06	0.
	6	7	0.0584	0.2024	88.03	20.20	0.0095
	6	8	0.0630	0.2795	81.61	14.62	0.0284
	6	9	0.0747	0.4359	68.75	9.38	0.0713
	6	10	0.1170	0.9093	43.90	4.50	0.2128
	7	7	0.0595	0.2794	86.29	14.63	0.
	7	8	0.0631	0.4355	81.42	9.39	0.0236
	7	9	0.0772	0.9087	66.59	4.50	0.1051
	8	8	0.0643	0.9084	79.93	4.50	0.

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
19	0	0	0.0486	0.0386	100.00	100.00	0.
	2	0	0.0487	0.0432	99.78	89.42	-0.0007
	3	0	0.0490	0.0464	99.34	83.32	-0.0015
	4	0	0.0494	0.0502	98.48	76.96	-0.0028
	5	0	0.0502	0.0548	96.97	70.47	-0.0047
	6	0	0.0514	0.0604	94.57	63.95	-0.0073
	7	0	0.0535	0.0672	90.96	57.50	-0.0110
	8	0	0.0567	0.0755	85.81	51.18	-0.0162
	9	0	0.0617	0.0858	78.86	45.03	-0.0234
	10	0	0.0695	0.0988	69.99	39.08	-0.0335
	11	0	0.0819	0.1158	59.36	33.36	-0.0480
	12	0	0.1023	0.1385	47.53	27.88	-0.0696
	13	0	0.1373	0.1706	35.43	22.64	-0.1030
	14	0	0.2017	0.2189	24.12	17.64	-0.1588
	15	0	0.3344	0.2998	14.54	12.88	-0.2624
	16	0	0.6686	0.4617	7.27	8.36	-0.4950
	17	0	1.9709	0.9483	2.47	4.07	-1.2911
	0	1	0.0487	0.0406	99.96	95.06	0.0002
	1	1	0.0487	0.0429	99.92	90.12	0.
	1	2	0.0488	0.0457	99.76	84.49	0.0005
	1	3	0.0490	0.0493	99.33	78.41	0.0013
	1	4	0.0494	0.0536	98.47	72.06	0.0027
	1	5	0.0502	0.0589	96.97	65.59	0.0047
	1	6	0.0514	0.0654	94.54	59.10	0.0076
	1	7	0.0535	0.0733	90.84	52.68	0.0117
	1	8	0.0569	0.0832	85.52	46.40	0.0174
	1	9	0.0622	0.0959	78.24	40.29	0.0256
	1	10	0.0706	0.1123	68.85	34.39	0.0374
	1	11	0.0845	0.1345	57.54	28.72	0.0550
	1	12	0.1082	0.1658	44.97	23.30	0.0822
	1	13	0.1510	0.2131	32.21	18.13	0.1272
	1	14	0.2370	0.2923	20.52	13.21	0.2097
	1	15	0.4436	0.4517	10.96	8.55	0.3912
	1	16	1.1859	0.9319	4.10	4.14	0.9882
	2	2	0.0488	0.0490	99.61	78.87	0.
	2	3	0.0490	0.0530	99.22	72.82	0.0009
	2	4	0.0494	0.0581	98.41	66.51	0.0023
	2	5	0.0502	0.0643	96.95	60.09	0.0045
	2	6	0.0514	0.0720	94.54	53.66	0.0076
	2	7	0.0536	0.0816	90.81	47.31	0.0121
	2	8	0.0570	0.0940	85.32	41.10	0.0186
	2	9	0.0626	0.1101	77.67	35.08	0.0281

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	2	10	0.0719	0.1319	67.65	29.29	0.0424
	2	11	0.0877	0.1627	55.45	23.73	0.0645
	2	12	0.1163	0.2095	41.82	18.44	0.1010
	2	13	0.1729	0.2881	28.13	13.41	0.1677
	2	14	0.3061	0.4464	15.89	8.65	0.3129
	2	15	0.7680	0.9240	6.33	4.18	0.7826
	3	3	0.0492	0.0578	98.88	66.81	0.
	3	4	0.0495	0.0638	98.16	60.56	0.0015
	3	5	0.0502	0.0712	96.81	54.21	0.0037
	3	6	0.0515	0.0807	94.50	47.87	0.0071
	3	7	0.0536	0.0928	90.80	41.63	0.0122
	3	8	0.0571	0.1087	85.21	35.55	0.0197
	3	9	0.0630	0.1302	77.19	29.67	0.0310
	3	10	0.0733	0.1608	66.38	24.02	0.0487
	3	11	0.0919	0.2072	52.94	18.64	0.0781
	3	12	0.1287	0.2854	37.78	13.53	0.1317
	3	13	0.2146	0.4431	22.66	8.72	0.2481
	3	14	0.5079	0.9194	9.58	4.20	0.6219
	4	4	0.0498	0.0710	97.57	54.39	0.
	4	5	0.0505	0.0802	96.40	48.15	0.0024
	4	6	0.0516	0.0921	94.29	41.93	0.0060
	4	7	0.0536	0.1078	90.77	35.83	0.0116
	4	8	0.0571	0.1291	85.18	29.91	0.0203
	4	9	0.0633	0.1595	76.79	24.22	0.0341
	4	10	0.0749	0.2057	64.97	18.78	0.0571
	4	11	0.0979	0.2836	49.69	13.62	0.0995
	4	12	0.1517	0.4410	32.07	8.76	0.1915
	4	13	0.3345	0.9166	14.54	4.21	0.4863
	5	5	0.0509	0.0919	95.49	42.03	0.
	5	6	0.0519	0.1074	93.73	35.97	0.0038
	5	7	0.0537	0.1285	90.57	30.05	0.0100
	5	8	0.0571	0.1587	85.18	24.33	0.0202
	5	9	0.0636	0.2048	76.48	18.86	0.0375
	5	10	0.0769	0.2825	63.26	13.67	0.0696
	5	11	0.1084	0.4396	44.88	8.79	0.1399
	5	12	0.2160	0.9148	22.51	4.22	0.3661
	6	6	0.0526	0.1283	92.47	30.10	0.
	6	7	0.0541	0.1584	89.93	24.39	0.0067
	6	8	0.0572	0.2042	85.10	18.91	0.0186
	6	9	0.0638	0.2818	76.26	13.71	0.0412
	6	10	0.0800	0.4388	60.79	8.80	0.0917
	6	11	0.1366	0.9136	35.60	4.23	0.2556
	7	7	0.0551	0.2040	88.34	18.93	0.
	7	8	0.0575	0.2815	84.64	13.72	0.0137
	7	9	0.0639	0.4383	76.13	8.81	0.0454

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	7	10	0.0875	0.9129	55.60	4.23	0.1512
	8	8	0.0587	0.4381	82.92	8.82	0.
	8	9	0.0639	0.9125	76.07	4.23	0.0500
20	0	0	0.0462	0.0366	100.00	100.00	0.
	1	0	0.0462	0.0384	99.97	95.35	-0.0002
	2	0	0.0463	0.0406	99.82	90.05	-0.0006
	3	0	0.0464	0.0434	99.44	84.32	-0.0013
	4	0	0.0468	0.0467	98.71	78.32	-0.0023
	5	0	0.0474	0.0507	97.45	72.19	-0.0039
	6	0	0.0484	0.0555	95.45	66.01	-0.0060
	7	0	0.0499	0.0611	92.45	59.86	-0.0090
	8	0	0.0524	0.0680	88.18	53.81	-0.0131
	9	0	0.0561	0.0764	82.37	47.91	-0.0187
	10	0	0.0617	0.0868	74.86	42.17	-0.0263
	11	0	0.0703	0.0999	65.64	36.63	-0.0370
	12	0	0.0839	0.1170	55.01	31.30	-0.0522
	13	0	0.1059	0.1398	43.59	26.18	-0.0746
	14	0	0.1433	0.1720	32.22	21.28	-0.1093
	15	0	0.2115	0.2204	21.83	16.61	-0.1668
	16	0	0.3512	0.3014	13.15	12.15	-0.2731
	17	0	0.7003	0.4636	6.59	7.90	-0.5111
	18	0	2.0525	0.9509	2.25	3.85	-1.3228
	0	1	0.0462	0.0384	99.97	95.35	0.0002
	1	1	0.0462	0.0404	99.94	90.70	0.
	1	2	0.0463	0.0429	99.79	85.41	0.0004
	1	3	0.0464	0.0459	99.43	79.69	0.0011
	1	4	0.0468	0.0497	98.71	73.71	0.0023
	1	5	0.0474	0.0542	97.45	67.59	0.0039
	1	6	0.0484	0.0596	95.43	61.43	0.0062
	1	7	0.0500	0.0662	92.38	55.31	0.0095
	1	8	0.0525	0.0743	87.98	49.29	0.0140
	1	9	0.0564	0.0843	81.94	43.42	0.0202
	1	10	0.0624	0.0970	74.05	37.72	0.0289
	1	11	0.0718	0.1136	64.31	32.23	0.0415
	1	12	0.0871	0.1359	53.04	26.94	0.0599
	1	13	0.1127	0.1673	40.96	21.88	0.0883
	1	14	0.1588	0.2147	29.07	17.04	0.1351
	1	15	0.2506	0.2943	18.43	12.44	0.2205
	1	16	0.4695	0.4540	9.84	8.06	0.4075
	1	17	1.2510	0.9352	3.69	3.91	1.0207
	2	2	0.0463	0.0457	99.66	80.13	0.
	2	3	0.0465	0.0492	99.33	74.44	0.0007

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	2	4	0.0468	0.0534	98.64	68.48	0.0019
	2	5	0.0474	0.0587	97.43	62.40	0.0037
	2	6	0.0484	0.0650	95.43	56.29	0.0062
	2	7	0.0500	0.0729	92.36	50.23	0.0097
	2	8	0.0526	0.0827	87.87	44.28	0.0147
	2	9	0.0566	0.0951	81.59	38.48	0.0218
	2	10	0.0630	0.1114	73.26	32.86	0.0321
	2	11	0.0735	0.1333	62.85	27.45	0.0472
	2	12	0.0910	0.1644	50.72	22.27	0.0705
	2	13	0.1224	0.2113	37.73	17.32	0.1089
	2	14	0.1839	0.2902	25.11	12.61	0.1785
	2	15	0.3274	0.4489	14.10	8.15	0.3295
	2	16	0.8218	0.9276	5.62	3.95	0.8160
	3	3	0.0466	0.0532	99.04	68.78	0.
	3	4	0.0469	0.0582	98.43	62.87	0.0012
	3	5	0.0475	0.0644	97.29	56.85	0.0030
	3	6	0.0484	0.0720	95.38	50.81	0.0057
	3	7	0.0500	0.0816	92.36	44.84	0.0096
	3	8	0.0526	0.0939	87.82	38.98	0.0153
	3	9	0.0568	0.1099	81.33	33.29	0.0235
	3	10	0.0637	0.1316	72.49	27.80	0.0357
	3	11	0.0754	0.1624	61.22	22.54	0.0547
	3	12	0.0964	0.2091	47.91	17.51	0.0860
	3	13	0.1374	0.2876	33.61	12.73	0.1427
	3	14	0.2320	0.4457	19.90	8.21	0.2651
	3	15	0.5528	0.9232	8.35	3.96	0.6564
	4	4	0.0472	0.0642	97.91	57.03	0.
	4	5	0.0476	0.0716	96.92	51.09	0.0019
	4	6	0.0485	0.0811	95.17	45.16	0.0048
	4	7	0.0500	0.0931	92.30	39.30	0.0090
	4	8	0.0526	0.1090	87.82	33.58	0.0154
	4	9	0.0569	0.1305	81.16	28.04	0.0250
	4	10	0.0644	0.1611	71.75	22.72	0.0402
	4	11	0.0778	0.2076	59.32	17.63	0.0652
	4	12	0.1044	0.2858	44.25	12.81	0.1107
	4	13	0.1655	0.4437	27.90	8.25	0.2090
	4	14	0.3714	0.9205	12.43	3.98	0.5223
	5	5	0.0480	0.0809	96.13	45.26	0.
	5	6	0.0488	0.0928	94.65	39.45	0.0030
	5	7	0.0502	0.1085	92.07	33.74	0.0076
	5	8	0.0526	0.1298	87.80	28.19	0.0148
	5	9	0.0570	0.1603	81.07	22.84	0.0264
	5	10	0.0650	0.2066	70.99	17.72	0.0457
	5	11	0.0812	0.2847	56.88	12.86	0.0812
	5	12	0.1187	0.4423	38.89	8.28	0.1582

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	5	13	0.2455	0.9187	18.81	3.98	0.4039
	6	6	0.0494	0.1083	93.54	33.79	0.
	6	7	0.0505	0.1295	91.43	28.26	0.0049
	6	8	0.0527	0.1598	87.62	22.90	0.0131
	6	9	0.0570	0.2060	81.05	17.77	0.0271
	6	10	0.0658	0.2839	70.18	12.89	0.0533
	6	11	0.0868	0.4414	53.21	8.29	0.1108
	6	12	0.1585	0.9175	29.14	3.99	0.2956
	7	7	0.0513	0.1597	90.00	22.93	0.
	7	8	0.0531	0.2057	87.02	17.80	0.0090
	7	9	0.0570	0.2835	81.05	12.91	0.0264
	7	10	0.0668	0.4409	69.16	8.30	0.0657
	7	11	0.1013	0.9167	45.60	3.99	0.1938
	8	8	0.0541	0.2834	85.35	12.92	0.
	8	9	0.0571	0.4406	80.85	8.31	0.0218
	8	10	0.0687	0.9163	67.22	3.99	0.0960
	9	9	0.0581	0.9162	79.46	4.00	0.
21	0	0	0.0440	0.0348	100.00	100.00	0.
	1	0	0.0440	0.0364	99.97	95.61	-0.0001
	2	0	0.0442	0.0408	99.52	85.22	-0.0011
	3	0	0.0449	0.0472	97.84	73.73	-0.0033
	4	0	0.0469	0.0561	93.64	62.00	-0.0075
	5	0	0.0449	0.0472	97.84	73.73	-0.0033
	7	0	0.0469	0.0561	93.64	62.00	-0.0075
	9	0	0.0516	0.0688	85.18	50.54	-0.0152
	11	0	0.0620	0.0877	70.87	39.64	-0.0292
	14	0	0.1098	0.1410	40.04	24.68	-0.0795
	17	0	0.3678	0.3028	11.95	11.49	-0.2833
	19	0	2.1316	0.9532	2.06	3.65	-1.3529
	0	1	0.0440	0.0366	99.97	95.61	0.0001
	1	1	0.0440	0.0381	99.94	91.22	0.
	1	3	0.0442	0.0430	99.51	80.84	0.0010
	1	5	0.0449	0.0501	97.84	69.39	0.0033
	1	7	0.0470	0.0603	93.59	57.69	0.0078
	1	9	0.0518	0.0752	84.88	46.28	0.0163
	1	11	0.0629	0.0981	69.89	35.45	0.0322
	1	13	0.0899	0.1371	48.89	25.36	0.0646
	1	15	0.1668	0.2163	26.34	16.08	0.1426
	1	17	0.4950	0.4561	8.88	7.63	0.4229
	1	18	1.3147	0.9382	3.34	3.71	1.0515
	2	2	0.0441	0.0428	99.71	81.26	0.
	2	4	0.0445	0.0495	98.84	70.26	0.0016
	2	6	0.0457	0.0593	96.14	58.67	0.0051
	2	8	0.0489	0.0737	89.86	47.17	0.0119

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	2	10	0.0566	0.0962	77.71	36.14	0.0250
	2	14	0.1288	0.2130	34.13	16.33	0.1164
	2	17	0.8748	0.9309	5.02	3.74	0.8476
	3	3	0.0443	0.0493	99.17	70.54	0.
	3	6	0.0457	0.0650	96.08	53.47	0.0047
	3	9	0.0520	0.0950	84.52	36.62	0.0183
	3	12	0.0780	0.1639	56.35	21.22	0.0606
	3	16	0.5973	0.9267	7.36	3.75	0.6891
	4	4	0.0448	0.0585	98.20	59.41	0.
	4	7	0.0470	0.0819	93.50	42.46	0.0072
	4	10	0.0572	0.1319	76.86	26.38	0.0297
	4	15	0.4086	0.9241	10.76	3.76	0.5562
	5	5	0.0455	0.0722	96.66	48.20	0.
	5	8	0.0489	0.1096	89.79	31.74	0.0113
	5	11	0.0671	0.2083	65.46	16.70	0.0536
	5	14	0.2758	0.9223	15.93	3.77	0.4393
	6	6	0.0465	0.0935	94.42	37.18	0.
	6	9	0.0521	0.1612	84.43	21.57	0.0192
	6	13	0.1820	0.9211	24.15	3.78	0.3330
	7	7	0.0481	0.1306	91.36	26.64	0.
	7	10	0.0577	0.2854	76.11	12.19	0.0385
	7	12	0.1177	0.9203	37.34	3.78	0.2335
	8	8	0.0503	0.2071	87.34	16.79	0.
	8	11	0.0773	0.9198	56.83	3.78	0.1385
	9	9	0.0534	0.4428	82.25	7.85	0.
	9	10	0.0579	0.9196	75.97	3.78	0.0459
22	0	0	0.0419	0.0331	100.00	100.00	0.
	1	0	0.0419	0.0346	99.97	95.84	-0.0001
	4	0	0.0423	0.0411	99.05	80.65	-0.0017
	7	0	0.0443	0.0518	94.59	63.95	-0.0063
	10	0	0.0511	0.0696	82.02	47.61	-0.0172
	14	0	0.0887	0.1190	47.27	27.84	-0.0601
	18	0	0.3841	0.3041	10.92	10.89	-0.2930
	20	0	2.2085	0.9553	1.90	3.47	-1.3815
	0	1	0.0419	0.0346	99.97	95.84	0.0001
	1	4	0.0423	0.0433	99.05	76.52	0.0016
	1	7	0.0443	0.0554	94.56	59.86	0.0065
	1	11	0.0563	0.0862	74.47	38.43	0.0256
	1	15	0.1226	0.1700	34.20	19.49	0.0999
	1	19	1.3769	0.9409	3.05	3.52	1.0809
	2	2	0.0420	0.0403	99.75	82.27	0.
	2	6	0.0434	0.0545	96.70	60.83	0.0042

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	2	10	0.0516	0.0846	81.26	39.17	0.0199
	2	14	0.0986	0.1672	42.51	19.82	0.0820
	2	18	0.9269	0.9339	4.52	3.55	0.8776
	3	3	0.0422	0.0459	99.28	72.13	0.
	3	7	0.0444	0.0657	94.54	50.41	0.0064
	3	10	0.0518	0.0960	80.98	34.52	0.0213
	3	14	0.1065	0.2124	39.36	15.60	0.1009
	3	17	0.6415	0.9299	6.54	3.56	0.7200
	4	4	0.0426	0.0538	98.43	61.56	0.
	4	7	0.0444	0.0731	94.46	45.36	0.0058
	4	10	0.0519	0.1113	80.78	29.77	0.0227
	4	13	0.0853	0.2109	49.17	15.71	0.0803
	4	16	0.4460	0.9273	9.40	3.57	0.5883
	5	5	0.0432	0.0651	97.09	50.87	0.
	5	9	0.0482	0.1106	86.99	29.95	0.0150
	5	13	0.0918	0.2885	45.69	11.48	0.1027
	5	15	0.3069	0.9256	13.66	3.58	0.4728
	6	6	0.0441	0.0822	95.15	40.30	0.
	6	9	0.0482	0.1319	86.96	25.13	0.0143
	6	12	0.0725	0.2877	57.84	11.52	0.0757
	6	14	0.2069	0.9244	20.27	3.58	0.3681
	7	7	0.0453	0.1101	92.48	30.08	0.
	7	10	0.0520	0.2088	80.59	15.87	0.0256
	7	13	0.1362	0.9236	30.79	3.59	0.2706
	8	8	0.0471	0.1621	88.99	20.44	0.
	8	12	0.0890	0.9231	47.12	3.59	0.1780
	9	9	0.0496	0.2868	84.55	11.55	0.
	10	10	0.0530	0.9227	79.08	3.59	0.
23	0	0	0.0401	0.0316	100.00	100.00	0.
	1	0	0.0401	0.0329	99.98	96.06	-0.0001
	5	0	0.0407	0.0414	98.40	76.40	-0.0024
	9	0	0.0449	0.0574	89.27	55.16	-0.0104
	13	0	0.0635	0.0895	63.17	35.36	-0.0348
	16	0	0.1180	0.1430	33.98	22.12	-0.0887
	19	0	0.4003	0.3054	10.01	10.36	-0.3023
	21	0	2.2833	0.9572	1.76	3.31	-1.4087
	0	1	0.0401	0.0329	99.98	96.06	0.0001
	1	1	0.0401	0.0343	99.96	92.11	0.
	1	5	0.0407	0.0436	98.40	72.49	0.0023
	1	9	0.0450	0.0617	89.12	51.31	0.0110
	1	13	0.0648	0.1001	61.89	31.61	0.0385
	1	17	0.1832	0.2190	21.88	14.44	0.1568

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	1	20	1.4377	0.9434	2.79	3.35	1.1088
	2	2	0.0402	0.0380	99.78	83.19	0.
	2	6	0.0413	0.0504	97.16	62.79	0.0036
	2	10	0.0477	0.0754	84.11	41.95	0.0162
	2	14	0.0801	0.1371	50.02	23.08	0.0608
	2	19	0.9782	0.9367	4.10	3.38	0.9063
	3	3	0.0403	0.0430	99.37	73.56	0.
	3	7	0.0421	0.0599	95.32	52.84	0.0053
	3	11	0.0519	0.0970	77.31	32.62	0.0243
	3	15	0.1120	0.2138	35.79	14.79	0.1079
	3	18	0.6853	0.9328	5.85	3.39	0.7495
	4	4	0.0406	0.0498	98.63	63.52	0.
	4	8	0.0433	0.0738	92.68	42.88	0.0078
	4	12	0.0589	0.1343	68.02	23.55	0.0385
	4	17	0.4833	0.9303	8.29	3.40	0.6188
	5	5	0.0411	0.0593	97.45	53.31	0.
	5	9	0.0450	0.0955	88.99	33.12	0.0118
	5	13	0.0729	0.2114	55.00	14.97	0.0684
	5	16	0.3383	0.9287	11.85	3.41	0.5045
	6	6	0.0419	0.0733	95.75	43.16	0.
	6	10	0.0478	0.1330	83.80	23.79	0.0187
	6	15	0.2327	0.9275	17.23	3.41	0.4013
	7	7	0.0429	0.0951	93.42	33.28	0.
	7	11	0.0527	0.2102	76.14	15.05	0.0333
	7	14	0.1563	0.9267	25.66	3.41	0.3055
	8	8	0.0444	0.1326	90.36	23.86	0.
	8	13	0.1030	0.9261	38.92	3.42	0.2150
	9	9	0.0464	0.2099	86.48	15.07	0.
	9	10	0.0482	0.2884	83.21	10.97	0.0120
	9	12	0.0692	0.9258	57.91	3.42	0.1277
	10	10	0.0491	0.4469	81.68	7.08	0.
	10	11	0.0528	0.9256	75.88	3.42	0.0424
24	0	0	0.0384	0.0303	100.00	100.00	0.
	1	0	0.0384	0.0314	99.98	96.25	-0.0001
	5	0	0.0389	0.0390	98.61	77.56	-0.0020
	9	0	0.0423	0.0529	90.77	57.20	-0.0088
	13	0	0.0565	0.0796	68.02	38.01	-0.0282
	17	0	0.1223	0.1439	31.40	21.03	-0.0930
	22	0	2.3561	0.9589	1.63	3.16	-1.4348
	0	1	0.0384	0.0314	99.98	96.25	0.0001
	1	1	0.0384	0.0327	99.96	92.50	0.
	1	5	0.0389	0.0410	98.61	73.83	0.0020

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	1	9	0.0424	0.0565	90.66	53.52	0.0092
	1	13	0.0573	0.0879	67.04	34.42	0.0308
	1	17	0.1331	0.1723	28.85	17.57	0.1105
	1	21	1.4972	0.9457	2.56	3.20	1.1355
	2	2	0.0385	0.0360	99.80	84.02	0.
	2	6	0.0394	0.0469	97.54	64.58	0.0030
	2	10	0.0444	0.0680	86.42	44.53	0.0133
	2	14	0.0679	0.1158	56.59	26.13	0.0467
	2	18	0.2291	0.2969	16.76	10.19	0.2172
	2	20	1.0286	0.9393	3.73	3.22	0.9336
	3	3	0.0386	0.0404	99.44	74.87	0.
	3	7	0.0400	0.0550	95.95	55.07	0.0044
	3	11	0.0476	0.0852	80.70	35.52	0.0195
	3	15	0.0876	0.1679	43.85	18.03	0.0768
	3	19	0.7286	0.9355	5.27	3.24	0.7775
	4	4	0.0389	0.0463	98.79	65.30	0.
	4	8	0.0410	0.0665	93.70	45.50	0.0065
	4	12	0.0526	0.1134	72.98	26.70	0.0297
	4	16	0.1345	0.2930	28.56	10.33	0.1507
	5	5	0.0393	0.0545	97.76	55.54	0.
	5	9	0.0424	0.0839	90.57	36.07	0.0095
	5	13	0.0616	0.1657	62.36	18.26	0.0490
	5	17	0.3701	0.9315	10.37	3.25	0.5346
	6	6	0.0399	0.0661	96.26	45.79	0.
	6	10	0.0445	0.1122	86.27	26.98	0.0145
	6	16	0.2592	0.9303	14.81	3.25	0.4327
	7	7	0.0408	0.0835	94.21	36.24	0.
	7	11	0.0479	0.1647	80.19	18.38	0.0239
	7	15	0.1776	0.9295	21.63	3.26	0.3385
	8	8	0.0420	0.1118	91.52	27.06	0.
	8	12	0.0543	0.2901	70.67	10.43	0.0467
	9	9	0.0436	0.1643	88.10	18.42	0.
	9	13	0.0792	0.9285	48.48	3.26	0.1646
	10	10	0.0458	0.2899	83.87	10.44	0.
	10	12	0.0563	0.9283	68.24	3.26	0.0817
	11	11	0.0488	0.9283	78.75	3.26	0.
25	0	0	0.0368	0.0290	100.00	100.00	0.
	1	0	0.0369	0.0301	99.98	96.42	-0.0001
	6	0	0.0377	0.0393	97.86	73.75	-0.0027
	11	0	0.0438	0.0585	84.19	49.57	-0.0134
	16	0	0.0783	0.1043	47.07	27.80	-0.0530
	21	0	0.4320	0.3075	8.53	9.43	-0.3196

N	R1	R2	VARMU	VAR SIGMA	RE MU	RE SIGMA	COV MU SIGMA
	23	0	2.4270	0.9606	1.52	3.02	-1.4597
	0	1	0.0369	0.0301	99.98	96.42	0.0001
	1	1	0.0369	0.0312	99.97	92.85	0.
	1	6	0.0377	0.0413	97.86	70.21	0.0027
	1	11	0.0439	0.0629	83.89	46.09	0.0143
	1	16	0.0816	0.1187	45.18	24.44	0.0598
	1	22	1.5554	0.9478	2.37	3.06	1.1610
	2	2	0.0369	0.0342	99.83	84.77	0.
	2	7	0.0382	0.0473	96.50	61.36	0.0040
	2	12	0.0474	0.0769	77.78	37.71	0.0204
	2	17	0.1116	0.1708	33.02	16.99	0.0977
	2	21	1.0781	0.9416	3.42	3.08	0.9597
	3	3	0.0370	0.0381	99.51	76.06	0.
	3	8	0.0390	0.0555	94.56	52.29	0.0057
	3	13	0.0528	0.0988	69.85	29.37	0.0300
	3	18	0.1845	0.2960	19.97	9.80	0.1907
	3	20	0.7713	0.9380	4.78	3.09	0.8043
	4	4	0.0372	0.0433	98.93	66.93	0.
	4	9	0.0401	0.0672	91.89	43.20	0.0081
	4	14	0.0619	0.1365	59.55	21.25	0.0468
	4	19	0.5576	0.9357	6.61	3.10	0.6754
	5	5	0.0376	0.0504	98.02	57.59	0.
	5	10	0.0418	0.0847	88.24	34.27	0.0118
	5	15	0.0801	0.2141	45.99	13.55	0.0820
	5	18	0.4021	0.9341	9.17	3.11	0.5632
	6	6	0.0381	0.0602	96.69	48.23	0.
	6	11	0.0443	0.1131	83.24	25.65	0.0179
	6	17	0.2863	0.9329	12.87	3.11	0.4625
	7	7	0.0388	0.0744	94.88	39.00	0.
	7	12	0.0484	0.1658	76.18	17.50	0.0293
	7	16	0.1998	0.9321	18.44	3.11	0.3696
	8	8	0.0398	0.0965	92.49	30.07	0.
	8	13	0.0566	0.2916	65.05	9.95	0.0569
	8	15	0.1362	0.9315	27.06	3.11	0.2825
	9	9	0.0412	0.1344	89.47	21.58	0.
	9	14	0.0913	0.9311	40.37	3.12	0.1992
	10	10	0.0430	0.2123	85.72	13.67	0.
	10	13	0.0626	0.9309	58.86	3.12	0.1185
	11	11	0.0454	0.4504	81.19	6.44	0.
	11	12	0.0486	0.9308	75.81	3.12	0.0394

TABLE 4

COMPARISON OF EFFICIENCIES WITH DIFFERENT ESTIMATORS IN UNCENSORED SAMPLES UP TO SIZE TWENTY-FIVE FROM A LOGISTIC DISTRIBUTION

N	Eff. Rel. to Cramér-Rao Lower Bound		Eff. of Moment Estimators Rel. to $\hat{\mu}$ and $\hat{\sigma}$	
	$\hat{\mu}$ Eq. (3.3)	$\hat{\sigma}$ Eq. (3.4)	$\hat{\mu}$ Eq. (3.5)	$\hat{\sigma}$ Eq. (3.8)
4	94.59	77.56	96.40	93.37
5	95.49	82.08	95.50	79.48
6	96.13	85.08	94.86	71.74
7	96.64	87.25	94.36	66.79
8	97.01	88.84	94.00	63.41
9	97.33	90.04	93.69	60.96
10	97.53	91.06	93.50	59.05
11	97.76	91.87	93.28	57.57
12	97.93	92.50	93.12	56.39
13	98.11	93.07	92.95	55.40
14	98.24	93.54	92.82	54.58
15	98.37	93.99	92.70	53.86
16	98.43	94.40	92.64	53.23
17	98.60	94.78	92.48	52.67
18	98.56	94.99	92.52	52.26
19	98.75	95.35	92.34	51.79
20	98.69	95.54	92.40	51.45
21	98.69	95.69	92.40	51.16
22	98.92	96.03	92.18	50.78
23	98.87	96.22	92.23	50.51
24	98.95	96.17	92.16	50.38
25	99.12	96.46	92.00	50.08