

Two Conjectures on Statistical Performance of ACORN Generators: Evidence for Orders 11 - 15

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Abstract

The Additive Congruential Random Number (ACORN) generator represents an approach to generating uniformly distributed pseudo-random numbers which is straightforward to implement for arbitrarily large order and modulus (where the modulus is a sufficiently large power of 2, typically up to 2^{120}); it has been demonstrated in previous papers to give rise to sequences with long period which, for the k -th order ACORN generator with modulus a power of 2, can be proven from theoretical considerations to approximate in a particular defined sense to the desired properties of uniformity in up to k dimensions.

REAMC Report-003(2021) recently proposed two conjectures which assert that for order 8 (or larger) and modulus 2^{120} almost every choice of odd seed together with an arbitrary set of initial values (including the possibility that the initial values are all chosen equal to zero) leads to a different sequence that can reasonably be expected to pass all the tests in the current Version 1.2.3 of the standard empirical test package known as TestU01. Supporting results were included for ACORN generators of modulus 2^{120} and order 8, 9 and 10.

The present report provides further supporting results covering ACORN generators of modulus 2^{120} and orders 11 to 15 inclusive. The results obtained with increasing order suggest that similar results will continue to be obtained as the order is increased further, with no suggestion as yet of any practical upper limit on the orders for which the conjectures hold.

1 INTRODUCTION

The Additive Congruential Random Number (ACORN) generator is a method for generating uniformly distributed pseudo-random numbers which gives rise to sequences with long period which can be proven from theoretical considerations to approximate to uniformity in any specified number of dimensions. Extensive empirical testing has previously demonstrated the excellent statistical performance of the ACORN generators with appropriately chosen parameters over a very wide range of initialisations.

A recent report [1] proposed two conjectures on the very wide range of conditions (specifically relating to the choice of seed and initial values) under which ACORN sequences having modulus 2^{120} and order 8 or larger can be expected to reliably pass all the TestU01 tests. Results were presented in [1] to support the conjectures for a selection of ACORN generators with 1000 different randomly chosen seed values and initial values chosen either as all zero, or initial values chosen at random, for modulus 2^{120} and for orders 8, 9 and 10. These results have now been extended for the same modulus and seed values and corresponding initial values, to cover ACORN generators having orders 11 to 15 inclusive; the new results are summarised in Tables 1 and 2 and detailed in Tables 3 through 42, which constitute the main content of the present report.

Report [1] was the second part of a two-part report. In the first part of that report [2], the standard TestU01 package of statistical tests for uniform distribution of sequences were applied to a range of ACORN sequences having modulus equal to 2^{120} , with different seed values and a range of different orders from 8 through 25 as well as a selection of larger orders up to 101. The results presented in [2] were focussed on testing ACORN sequences with a wide selection of seed values and identifying some very specific seed values that should be avoided.

Section 2 of the present report provides the definition of an ACORN sequence and an overview of the existing theoretical analysis and empirical test results that have been published to date. Section 3 gives a brief overview of the standard TestU01 package of empirical tests of uniformity and randomness that has been used in this work. It should be noted that Sections 2 and 3 are largely unchanged from the corresponding sections in references [1] and [2]; they have been included here so that this report can be read in isolation without needing to refer back to the earlier reports for this overview.

Section 4, which states the two conjectures and Section 5 which details the test cases that provide the supporting evidence for their veracity are largely unchanged from the corresponding sections in reference [1]; once again these are included here so that the present

report can be read in isolation. Section 6 goes on to discuss the significance of all the results obtained to date.

2 OVERVIEW - ACORN SEQUENCES AND ACORN GENERATORS

Let k be a finite, strictly positive integer. A k -th order ACORN sequence is defined from an integer modulus M , an integer seed Y^0_0 satisfying $0 < Y^0_0 < M$ and an arbitrary set of k integer initial values Y^m_0 , $m = 1, \dots, k$, each satisfying $0 \leq Y^m_0 < M$ by the equations

$$Y^0_0 = Y^0_{n-1} \quad n \geq 1 \quad (1)$$

$$Y^m_n = [Y^{m-1}_n + Y^m_{n-1}]_{\text{mod } M} \quad n \geq 1, m = 1, \dots, k \quad (2)$$

where by $[Y]_{\text{mod } M}$ we mean the (integer) remainder on dividing Y by M .

The k -th order Additive Congruential Random Number (ACORN) generator is defined by Wikramaratna [3,4] from equations (1) and (2) together with the observation that the sequence of numbers Y^k_n can be normalised to the unit interval by dividing by M

$$X^k_n = Y^k_n / M \quad n \geq 1 \quad (3)$$

The numbers X^k_n defined by equations (1) - (3) approximate to being uniformly distributed on the unit interval in up to k dimensions, provided a few simple constraints on the initial parameter values are satisfied. In short the modulus M needs to be a prime power, with powers of 2 offering the most straightforward implementation, while the seed Y^0_0 and the modulus should be chosen to be relatively prime (two numbers are said to be relatively prime if they have no prime factors in common, which means that their greatest common divisor is 1). This is the approach that we have adopted in most of our previous experiments with the ACORN generator, and it appears to work very successfully.

The original implementation proposed in [3] used real arithmetic modulo one, calculating the X^k_n directly. This implementation suffered from a number of conceptual and practical limitations (in particular, the sequences generated with any specific initialisation could not be guaranteed reproducible on different hardware or with different compilers, although the statistical properties of the sequences were unaffected). These limitations could be overcome [4] through the use of the integer implementation based on equations (1) – (3). Theoretical analysis given by Wikramaratna [4] has shown that the numbers Y^m_n are of the form

$$Y^m_n = [\sum_{i=0}^m Y^i_0 Z^{m-i}]_{\text{mod } M} \quad (4)$$

where for any integer values of a (non-negative) and b (positive) we define $Z^a b$ by

$$Z^a_b = \frac{(a+b-1)!}{a!(b-1)!} \quad (5)$$

More extensive theoretical analysis and empirical testing of the algorithm have been described in subsequent papers, including [5] and [6].

From a theoretical viewpoint [5] the ACORN generator was shown to be a very particular special case of a multiple recursive generator; when this formulation was written in a specified matrix form, it led in turn to the discovery of some special matrices (called centro-invertible matrices) which have some interesting and unusual properties [7]. The theoretical analysis in [6] led to a proof that a k -th order ACORN generator with modulus 2^{30p} approximates to being k -distributed in a particular sense that was defined in the paper.

Empirical tests carried out previously by the author, making use of the Diehard statistical test suite, Marsaglia [8], have been reported in [5]. Further empirical testing was carried out in 2008 and reported by the author [6], using the Version 0.6.1 of the TestU01 package described by L'Ecuyer and Simard [9]. More recently, empirical testing has been carried out using the most current Version 1.2.3 of the TestU01 package as reported in [10] and [11]; that work has now been systematically extended to ACORN generators with much wider choices of initialisations.

A recent paper by Wikramaratna [12] addressed the periodicity of ACORN sequences for any specified order, modulus and any choice of seed that is relatively prime with the modulus. As an example, every ACORN generator with order at least 8, modulus 2^{120} and any choice of odd seed has a period length in excess of 2^{123} . This period is already far in excess of the maximum period that might be required in the largest conceivable computationally practicable (using hardware available in 2020) application requiring a source of uniformly distributed pseudo-random numbers; however we note that the ACORN algorithm extends naturally and very easily to even longer period lengths simply by increasing the modulus to a larger power of 2.

See also further discussion on the website <http://acorn.wikramaratna.org>, which includes a more comprehensive list of relevant ACORN references as well as links to downloadable versions of the references. Recent ACORN references (including this report) are available for download from the REAMC Limited website, <https://www.reamc-limited.com>.

3 EMPIRICAL TEST PACKAGE - TESTU01 VERSION 1.2.3

The TestU01 package has been described by L'Ecuyer and Simard [9]. They considered the application of empirical tests of uniformity and randomness to sequences generated by a wide range of algorithms and developed a comprehensive set of empirical tests that were designed

to detect undesirable characteristics in such sequences. L'Ecuyer and Simard present results of applying the TestU01 tests to a large number of different sequences, identifying specific generators that pass all of the tests (collectively called the BigCrush test battery), as well as identifying many generators (including some that are widely used) that have serious deficiencies in respect of certain specific tests.

The results presented below for ACORN generators (which were not included among generators considered by L'Ecuyer and Simard) were obtained using the latest version 1.2.3 of TestU01. For each sequence that is tested the BigCrush battery of tests calculates p-values for 180 different test statistics (we note that some of the test statistics are calculated more than once using different parts of the sequence of pseudo-random numbers that is being tested, so that in practice there are a total of 254 different p-values that are calculated and output by the BigCrush test battery in version 1.2.3 of TestU01), making use of some 2^{38} pseudo-random numbers from each sequence in the process. We follow L'Ecuyer and Simard in defining a "failure" to be a test statistic with a p-value outside the range $[10^{-10}, 1-10^{-10}]$ and a "suspect" value to be a test statistic falling in one of the ranges $[10^{-10}, 10^{-4}]$ or $[1-10^{-4}, 1-10^{-10}]$. This is the same approach that was adopted in [10]. It is worth noting that there were a number of cases which gave rise to a test result with either $p=0.9999$ or $p=0.0001$; for the purpose of this study, this has in all cases been classed as a suspect value rather than a pass; how these cases are treated makes a small difference to the total number of suspect values, but has no impact on the overall conclusions concerning the statistical behaviour of ACORN sequences.

4 TWO CONJECTURES ON ACORN STATISTICAL PERFORMANCE

Based on our experience of testing ACORN generators (including results discussed in references [2], [10], [11] as well as other unpublished results) we have proposed (see reference [1]) the following two conjectures concerning the results of applying the TestU01 version 1.2.3 BigCrush tests to certain ACORN generators. A few preliminaries are appropriate before stating the conjectures, in particular to define some terms that will be required.

1. The conjectures are stated for ACORN generators with modulus 2^{120} . We believe that the same conjectures would hold for ACORN generators with modulus equal to any larger power of two (after making some obvious generalisations to the definitions).
2. It is straightforward to verify (as will be seen, and as was shown previously in [1]) by counter-example that the conjectures do not hold for order $k=7$, so that $k=8$ is the smallest order for which the conjectures might hold.

3. The phrase ‘select an odd seed at random’ is interpreted to mean that each of the first 119 bits in the binary representation of the seed is assigned to be zero or one with probability 0.5, and the final bit is assigned to be one.
4. The phrase ‘select the initial values at random’ is interpreted to mean that each of the bits in the binary representation of the seed is assigned to be zero or one with probability 0.5.
5. The phrase “the sequence … will almost certainly pass all the tests in version 1.2.3 of the TestU01 BigCrush test suite” is interpreted to mean that the likelihood of failure on one or more of the tests is vanishingly small; based on our tests this probability is certainly much less than 1 in a thousand and we believe in practice it will turn out to be significantly less than 1 in a million.
6. As noted previously, there are 254 different p-values calculated in each run of BigCrush test battery. Therefore, for a truly random uniformly distributed [0,1) sequence, the likelihood of a single ‘suspect value’ arising by chance in an individual run of the BigCrush test battery would be $254/5000 = 0.0508$ (5.08% or roughly 1 in 20) while the likelihood of a single ‘failure’ arising by chance would be 5.08×10^{-8} (roughly 1 in 20 million).

CONJECTURE 1. If we define an ACORN generator with modulus 2^{120} and order k of 8 or larger, select an odd seed “at random” and set all k initial values to be zero, then the resulting ACORN sequence will almost certainly pass all the tests in version 1.2.3 of the TestU01 BigCrush test suite. \square

CONJECTURE 2. If we define an ACORN generator as in Conjecture 1, again select an odd seed “at random” (in the sense of conjecture 1) together with any specified set of initial values (which may either be selected “at random”, or assigned particular chosen values) then the resulting ACORN sequence will almost certainly pass all the tests in version 1.2.3 of the TestU01 BigCrush test suite. \square

It should be noted that Conjecture 1 is a particular special case of Conjecture 2. If Conjecture 1 fails, then Conjecture 2 must also fail. On the other hand, if Conjecture 2 is correct then Conjecture 1 must also be correct.

It is clearly not possible to conclusively ‘prove’ the correctness of either of the conjectures, given the number of different possible choices of seed and the time it would take to

exhaustively test all the possible choices; in addition, the probabilistic nature of the TestU01 tests means that a definitive answer cannot be achieved. However, it is possible to test the validity of the conjectures by randomly selecting a sufficiently large set of seeds and initial values (using any appropriate method to assign a value to each of the bits) and then running the TestU01 BigCrush tests for each resulting case.

The result of such testing will be either to disprove the conjectures (if there is a significant fraction of the randomly selected initialisations that result in one or more failures) or to lend support to the conjectures (if there are either no failures or only a very small fraction of the randomly selected initialisations result in one or more failures).

We note the importance of selecting the seeds “at random”. However, it is possible to choose any appropriate and convenient method - including ACORN (as here), any other standard prn generator, or a physical method such as coin tossing to assign the individual bits in the seeds to be used for each of the test cases. The important point is that the bits take the values 0 and 1 with equal likelihood and that the values assigned to successive bits are uncorrelated.

5 SUPPORTING EVIDENCE - RESULTS OF TESTING

There are two sets of cases that are considered in this part of the report, respectively numbered R1-xxx and S1-xxx (where xxx runs from 000 to 999); these sets of cases have been selected to test the two Conjectures 1 and 2 respectively. The cases have previously been run with order 8, 9 and 10 (see reference [1]) and these results are now extended to orders 11 to 15 inclusive; seeds and initial values for the cases were selected as discussed in Section 5.1.

All cases considered here have modulus equal to 2^{120} . In each case considered, the seed S is a 120-bit integer. Note that all seeds are chosen to be odd (so that the last digit in the binary representation of the seed is a one). Choosing an odd seed value guarantees that the period of the sequence will be at least eight times the modulus (which comes out as 2^{123} in this instance) for every ACORN generator of order 8 or more (see Wikramaratna [12]). When implementing an ACORN generator using either 64-bit or 32-bit integer arithmetic, the seed S can be represented as follows, either by two 60-bit integers, t_1 and t_2 , or by four 30-bit integers s_1, s_2, s_3 and s_4 .

$$S = 2^{60}t_1 + t_2 = 2^{90}s_1 + 2^{60}s_2 + 2^{30}s_3 + s_4 \quad (6)$$

This representation is unique in the sense that it defines a one-one onto mapping between any two of $S, (t_1, t_2)$ and (s_1, s_2, s_3, s_4) . In presenting the results it will be helpful to specify the values of s_1, s_2, s_3 and s_4 using base 10 as numbers in the range zero to $(2^{30}-1)$, and values of t_1 and t_2 using base 10 as numbers in the range zero to $(2^{60}-1)$.

5.1 Specification of Test Cases

The test cases were specified as in [1]. Firstly, one thousand 120-bit integers were generated, the first 119 bits being assigned randomly and the final bit set to one; these integers were assigned Case Indices 1-000 to 1-999, and their values are in the tables of results for individual test cases (see the Tables 3 to 42 of the present report). In this study an ACORN generator was called 119 times to generate the individual bits for each of the 1000 seed values; however, as already discussed the particular method used to generate the seeds is not significant, and similar results would be expected if we used different generators to construct the seeds (either changing the order, modulus and initialisation of the ACORN generator used, or selecting any other standard algorithm to generate the individual bits).

The cases R1-xxx were designed to test Conjecture 1. These cases were previously run with order $k=8, 9$ and 10 (in addition, a smaller number of cases, xxx from 000 to 099, were run with order $k=7$, to demonstrate that the conjecture 1 cannot hold for order $k=7$). The results have now been extended to cover orders $k=11$ to 15 inclusive. Each of the Cases R1-xxx (xxx from 000 to 999) was given a random seed, as selected above (with Case Index 1-xxx) and all k initial values set to zero.

The cases S1-xxx were designed to test Conjecture 2. These cases were previously run with order $k = 8, 9$ and 10 (in addition, a smaller number of cases, xxx from 000 to 099, were run with order $k = 7$, to demonstrate that the conjecture 2 cannot hold for order $k = 7$). The results have now been extended to cover orders $k = 11$ to 15 inclusive. The Cases S1-xxx (xxx from 000 to 999) were given the same random seeds, as selected above for Case R1-xxx (with Case Index 1-xxx) and the i -th initial value set to equal to the integer assigned to Case Index 1-[xxx+i]_{mod 1000} for $i=1, \dots, k$.

5.2 Summary Results

The results are summarised in Table 1 (for the Cases R1-xxx) and Table 2 (for the Cases S1-xxx); it should be noted that Tables 1 and 2 include the new results (for orders $k = 11$ to 15 inclusive) as well as the earlier results (for order $k=7, 8, 9$ and 10). Tables 1 and 2 both have the same format, which can be summarised as follows:

- The left hand side summarises the average number of ‘failures’ obtained for each batch of runs, while the right hand side summarises the average number of ‘suspect values’ (the definition of ‘failures’ and ‘suspect values’ has been discussed in the final paragraph of Section 3).
- Each of the first 20 lines in the table represents 50 cases (for order 7 only 100 cases were run, so there are only two lines completed). The final line of the table gives the

average over the full set of 1000 cases (for order 7 the average is over the 100 cases that were run).

The left hand side of Table 1 shows that there were no failures on any of the tests for any of the one thousand Cases R1-000 to R1-999 for any of the ACORN generators with order 8 to 15 inclusive. On the other hand, the corresponding ACORN generators with order 7 failed on four of the tests for every one of the 100 cases that were tested. The right hand side of Table 1 shows that there were suspect values found in between 4% and about 6% of the cases, consistent with the theoretical estimate of just over 5%.

The left hand side of Table 2 shows that there were no failures on any of the tests for any of the one thousand Cases S1-000 to S1-999 for the ACORN generators with order 8 to 15 inclusive. The corresponding ACORN generators with order 7 again failed on four of the tests for every one of the 100 cases that were tested. The right hand side of Table 2 shows that there were suspect values found in between 4% and about 6% of the cases, once again consistent with the theoretical estimate of just over 5%.

Both tables show the total number of suspect values occurring; across the two sets of runs there were a very small number of cases giving rise to two suspect values and a single test with three suspect values, so the number of suspect values occurring is also a close approximation to the number of cases with one or more suspect values.

The results summarised in these two tables provide strong supporting evidence for the correctness of the two Conjectures 1 and 2 respectively. The remarkable consistency of the results obtained with increasing order suggest that similar results will continue to be obtained as the order is increased further, with no suggestion as yet of any practical upper limit on the range of orders for which the conjectures hold.

5.3 Detailed Results

Table 3 to Table 42 give the seeds, initialisations and results obtained for each individual case with orders between 11 and 15 (the corresponding detailed results for orders 8, 9 and 10 were included in [1])

- Each of the 40 tables gives 25 lines of data corresponding to a subset of 25 of the 1000 cases. The results have been divided up in this way for ease of reference, so that each individual table fits on a single page in the report.
- The left hand section of each table specifies the seeds used for each of the cases; the seeds are specified in two equivalent ways, as in equation (6). As already noted, the seeds are exactly the same as used for the corresponding cases in reference [1].

- The central section of each table gives the results obtained for the cases R1-xxx with initial values set to zero, for order 11 to 15 inclusive; these are relevant to Conjecture 1. The results show the number of failures, followed by the number of suspect values shown in brackets. Cases with one or more failures are highlighted pink; no failures occurred for any of the cases tested with orders 11 to 15. Cases with one or more suspect values are highlighted green.
- The right hand section of each table gives the results for the cases S1-xxx with initial values set randomly, for order 11 to 15 inclusive; these are relevant to Conjecture 2. Results are shown in the same format as in the central section of the tables.

Each run of TestU01 typically consumes about 4 hours of cpu-time (it should be noted that in practice the time varies depending on the speed and the loading of the processor used, as well as the order and modulus of the ACORN generator being tested, so that there can be significant variations in the time required). The results included in this report therefore represent a very significant computational effort over an extended period of time (some 24,000 cpu-hours in total for the cases that were included in [1]; and a further 40,000 cpu-hours for the new cases included in the present report). Results of all individual runs have been saved and could be made available as a resource by arrangement - please contact the author if this might be of interest.

6 SIGNIFICANCE OF RESULTS

L'Ecuyer and Simard [9] documented the testing of prn sequences generated using some 92 different methods (which they described as “a long list of well known or widely used generators”) and identified some 26 methods that gave rise to a sequence that passed all the tests in the TestU01 BigCrush Test Suite according to the criteria used. They state that the methods included in their paper represent a subset of the methods that they tested, and that the results presented were a representative subset of the overall results obtained. It is noted that L'Ecuyer and Simard only reported results from one particular initialisation for each pseudo-random number generator that they tested.

If correct, the conjectures that were originally proposed in [1] lead to a method for generating vast numbers of different ACORN sequences which can each be relied on to pass all the TestU01 BigCrush tests with an extremely high probability. The number of such sequences is a large multiple of 2^{119} ; each of these sequences has a period length in excess of 2^{123} .

In this report and in [1] we have identified many thousands of different ACORN sequences with 1000 different seed values which were selected at random according to the criteria of the conjectures (sixteen ACORN sequences for each seed value; orders 8 to 15 inclusive, both with all initial values set to zero, and with initial values assigned randomly), which we have

demonstrated to pass all the TestU01 BigCrush tests; more significantly, using this approach of random selection we have so far completely avoided selection of any of the ‘undesirable’ seed values that do give rise to failures, lending considerable support to the conjectures.

It should be noted that two ACORN sequences selected in the manner described cannot be guaranteed to be independent unless they have different orders. For example, consider two sequences of the same order with different seeds that sum to 2^{120} , and all initial values zero in each case (and note that other combinations can also be found which may give rise to similar issues). The two resulting sequences are such that corresponding terms will always sum to 1, so there is clearly a correlation between the two sequences in this case. However, if the seeds and the initial values are all chosen randomly, there is minimal chance of a significant correlation between the two resulting sequences even if they both have the same order.

7 CONCLUSIONS

In a previous report [1] we proposed two conjectures concerning the results of applying the TestU01 version 1.2.3 BigCrush tests to ACORN generators having modulus 2^{120} and with order 8 or more.

Extensive new results have been presented here support the veracity of the two conjectures with order 11 to 15; these extend earlier supporting results for orders 8, 9 and 10 that presented in [1]. There is no evidence for any deterioration in the statistical performance as the order increases, and no suggestion of any practical upper limit on the range of orders for which the conjectures hold. The earlier results also demonstrated that the conjectures cannot hold with order 7 - so that the condition that the order should be eight or more for the conjectures to hold is demonstrated to be necessary. Overall, the results provide strong supporting evidence for the correctness of the two Conjectures 1 and 2.

If correct, the conjectures that have been proposed lead to a method for generating vast numbers of different sequences which can each be relied on to pass all the TestU01 BigCrush tests with an extremely high probability. The number of such sequences is a large multiple of 2^{119} ; each of these sequences has a period length in excess of 2^{123} .

It should be noted that two ACORN sequences selected in the manner described cannot be guaranteed to be independent unless they have different orders. Despite this, if the seeds and the initial values are all chosen randomly (in the sense defined in the paper), there is minimal chance of any significant correlation between the two resulting sequences even if they both have the same order.

Table 1 Summary results for Cases R1-000 to R1-999, including earlier results for orders 7 to 10 [1] and new results for orders 11 to 15

FAILURES - SUMMARY										SUSPECT VALUES - SUMMARY									
	Order	Order	Order	Order	Order	Order	Order	Order	Order	Order									
	7	8	9	10	11	12	13	14	15		7	8	9	10	11	12	13	14	15
Cases R1-000 to R1-049	200	0	0	0	0	0	0	0	0	Cases R1-000 to R1-049	4	4	5	4	0	0	2	3	2
Cases R1-050 to R1-099	200	0	0	0	0	0	0	0	0	Cases R1-050 to R1-099	4	1	3	6	1	3	1	3	4
Cases R1-100 to R1-149	~	0	0	0	0	0	0	0	0	Cases R1-100 to R1-149	~	3	1	3	4	3	3	3	2
Cases R1-150 to R1-199	~	0	0	0	0	0	0	0	0	Cases R1-150 to R1-199	~	4	1	4	3	4	2	2	4
Cases R1-200 to R1-249	~	0	0	0	0	0	0	0	0	Cases R1-200 to R1-249	~	4	4	3	1	1	5	1	3
Cases R1-250 to R1-299	~	0	0	0	0	0	0	0	0	Cases R1-250 to R1-299	~	3	4	2	2	2	4	3	2
Cases R1-300 to R1-349	~	0	0	0	0	0	0	0	0	Cases R1-300 to R1-349	~	3	3	2	0	2	4	0	0
Cases R1-350 to R1-399	~	0	0	0	0	0	0	0	0	Cases R1-350 to R1-399	~	2	1	4	6	5	2	2	2
Cases R1-400 to R1-449	~	0	0	0	0	0	0	0	0	Cases R1-400 to R1-449	~	1	3	1	0	4	4	2	4
Cases R1-450 to R1-499	~	0	0	0	0	0	0	0	0	Cases R1-450 to R1-499	~	0	4	3	5	2	0	3	5
Cases R1-500 to R1-549	~	0	0	0	0	0	0	0	0	Cases R1-500 to R1-549	~	4	3	2	1	0	1	8	2
Cases R1-550 to R1-599	~	0	0	0	0	0	0	0	0	Cases R1-550 to R1-599	~	2	2	1	3	3	6	5	3
Cases R1-600 to R1-649	~	0	0	0	0	0	0	0	0	Cases R1-600 to R1-649	~	5	1	1	0	0	3	3	4
Cases R1-650 to R1-699	~	0	0	0	0	0	0	0	0	Cases R1-650 to R1-699	~	3	3	4	0	2	0	4	2
Cases R1-700 to R1-749	~	0	0	0	0	0	0	0	0	Cases R1-700 to R1-749	~	6	4	3	3	5	0	1	2
Cases R1-750 to R1-799	~	0	0	0	0	0	0	0	0	Cases R1-750 to R1-799	~	2	2	3	2	4	1	3	3
Cases R1-800 to R1-849	~	0	0	0	0	0	0	0	0	Cases R1-800 to R1-849	~	5	2	1	2	4	5	2	1
Cases R1-850 to R1-899	~	0	0	0	0	0	0	0	0	Cases R1-850 to R1-899	~	4	0	1	5	2	0	4	2
Cases R1-900 to R1-949	~	0	0	0	0	0	0	0	0	Cases R1-900 to R1-949	~	2	0	2	3	2	4	4	3
Cases R1-950 to R1-999	~	0	0	0	0	0	0	0	0	Cases R1-950 to R1-999	~	5	1	2	1	2	1	2	5
TOTAL R1-000 to R1-999	400	0	0	0	0	0	0	0	0	TOTAL R1-000 to R1-999	8	63	47	52	42	50	48	58	55
AVERAGE R1-000 to R1-999	4.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AVERAGE R1-000 to R1-999	0.080	0.063	0.047	0.052	0.042	0.050	0.048	0.058	0.055

Table 2 Summary results for Cases S1-000 to S1-999 including earlier results for orders 7 to 10 [1] and new results for orders 11 to 15

FAILURES - SUMMARY										SUSPECT VALUES - SUMMARY									
	Order 7	Order 8	Order 9	Order 10	Order 11	Order 12	Order 13	Order 14	Order 15		Order 7	Order 8	Order 9	Order 10	Order 11	Order 12	Order 13	Order 14	Order 15
Cases S1-000 to S1-049	200	0	0	0	0	0	0	0	0	Cases S1-000 to S1-049	2	4	2	2	3	2	2	1	4
Cases S1-050 to S1-099	200	0	0	0	0	0	0	0	0	Cases S1-050 to S1-099	1	6	3	3	4	2	3	3	0
Cases S1-100 to S1-149	~	0	0	0	0	0	0	0	0	Cases S1-100 to S1-149	~	3	5	0	1	3	2	2	3
Cases S1-150 to S1-199	~	0	0	0	0	0	0	0	0	Cases S1-150 to S1-199	~	1	3	5	5	3	1	2	5
Cases S1-200 to S1-249	~	0	0	0	0	0	0	0	0	Cases S1-200 to S1-249	~	5	2	0	3	0	4	1	3
Cases S1-250 to S1-299	~	0	0	0	0	0	0	0	0	Cases S1-250 to S1-299	~	2	1	2	3	0	1	0	1
Cases S1-300 to S1-349	~	0	0	0	0	0	0	0	0	Cases S1-300 to S1-349	~	0	1	2	3	1	2	2	2
Cases S1-350 to S1-399	~	0	0	0	0	0	0	0	0	Cases S1-350 to S1-399	~	2	1	3	3	2	4	4	5
Cases S1-400 to S1-449	~	0	0	0	0	0	0	0	0	Cases S1-400 to S1-449	~	3	3	1	0	1	2	1	3
Cases S1-450 to S1-499	~	0	0	0	0	0	0	0	0	Cases S1-450 to S1-499	~	3	0	6	3	1	7	3	1
Cases S1-500 to S1-549	~	0	0	0	0	0	0	0	0	Cases S1-500 to S1-549	~	4	1	1	1	5	1	1	2
Cases S1-550 to S1-599	~	0	0	0	0	0	0	0	0	Cases S1-550 to S1-599	~	4	1	2	3	4	5	6	1
Cases S1-600 to S1-649	~	0	0	0	0	0	0	0	0	Cases S1-600 to S1-649	~	3	2	1	1	4	2	2	3
Cases S1-650 to S1-699	~	0	0	0	0	0	0	0	0	Cases S1-650 to S1-699	~	4	4	0	2	3	6	4	0
Cases S1-700 to S1-749	~	0	0	0	0	0	0	0	0	Cases S1-700 to S1-749	~	4	0	1	2	2	5	5	1
Cases S1-750 to S1-799	~	0	0	0	0	0	0	0	0	Cases S1-750 to S1-799	~	3	2	5	3	1	3	2	4
Cases S1-800 to S1-849	~	0	0	0	0	0	0	0	0	Cases S1-800 to S1-849	~	3	1	1	3	3	3	4	1
Cases S1-850 to S1-899	~	0	0	0	0	0	0	0	0	Cases S1-850 to S1-899	~	3	4	3	1	3	0	3	7
Cases S1-900 to S1-949	~	0	0	0	0	0	0	0	0	Cases S1-900 to S1-949	~	1	2	4	4	2	5	3	0
Cases S1-950 to S1-999	~	0	0	0	0	0	0	0	0	Cases S1-950 to S1-999	~	4	5	1	1	4	1	0	2
TOTAL S1-000 to S1-999	400	0	0	0	0	0	0	0	0	TOTAL S1-000 to S1-999	3	62	43	43	49	46	59	49	48
AVERAGE S1-000 to S1-999	4.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	AVERAGE S1-000 to S1-999	0.030	0.062	0.043	0.043	0.049	0.046	0.059	0.049	0.048

Table 3 Detailed Results for Seed Index 1-000 to 1-024, Cases R1-000 to R1-024 and S1-000 to S1-024

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-000	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-000	Order 11	Order 12	Order 13	Order 14	Order 15
	449317483	1032863184	547737111	629455499	482450974784372176	588128245267085963		0(0)	0(0)	0(0)	0(0)	0(0)		0(0)	0(0)	0(0)	0(0)	0(0)
1-000	449317483	1032863184	547737111	629455499	482450974784372176	588128245267085963	R1-000	0(0)	0(0)	0(0)	0(0)	0(0)	S1-000	0(0)	0(0)	0(0)	0(0)	0(0)
1-001	73109002	783012110	534063117	1024421113	78500193941311758	573445906403126521	R1-001	0(0)	0(0)	0(0)	0(0)	0(1)	S1-001	0(0)	0(1)	0(0)	0(0)	0(0)
1-002	510738026	574566204	75880538	255901843	548400780197965628	81476107534123155	R1-002	0(0)	0(0)	0(0)	0(0)	0(0)	S1-002	0(0)	0(0)	0(0)	0(0)	0(0)
1-003	447354547	252325167	734666562	217462417	480343287522798895	788842214531151505	R1-003	0(0)	0(0)	0(0)	0(0)	0(0)	S1-003	0(0)	0(0)	0(0)	0(0)	0(0)
1-004	836037317	692387446	1017355807	281211805	897688234380033654	1092377480146383773	R1-004	0(0)	0(0)	0(0)	0(0)	0(0)	S1-004	0(0)	0(0)	0(1)	0(0)	0(0)
1-005	721057738	828807395	4663741	712778377	774229851638241507	5007654480781961	R1-005	0(0)	0(0)	0(0)	0(0)	0(0)	S1-005	0(0)	0(0)	0(1)	0(0)	0(0)
1-006	169993483	673504310	961031466	748720205	182529113178037302	1031899679972954189	R1-006	0(0)	0(0)	0(0)	0(0)	0(0)	S1-006	0(0)	0(0)	0(0)	0(0)	0(1)
1-007	1043304689	232489204	517564125	85953645	1120239879987101940	555730247700417645	R1-007	0(0)	0(0)	0(0)	0(0)	0(0)	S1-007	0(0)	0(0)	0(0)	0(0)	0(0)
1-008	91605329	502720121	929122610	524239837	98360473551300217	997637806505280477	R1-008	0(0)	0(0)	0(0)	0(0)	0(1)	S1-008	0(0)	0(0)	0(0)	0(0)	0(0)
1-009	661319288	695630435	24158466	997480553	710086179239131747	25939956345362537	R1-009	0(0)	0(0)	0(0)	0(0)	0(0)	S1-009	0(0)	0(0)	0(0)	0(0)	0(0)
1-010	686591415	12266104	352681021	10896999	737221918297107064	378688362789619303	R1-010	0(0)	0(0)	0(0)	0(0)	0(0)	S1-010	0(0)	0(0)	0(0)	0(0)	0(0)
1-011	761807964	598765114	537562779	443436289	817985073401851450	577203639281405185	R1-011	0(0)	0(0)	0(0)	0(0)	0(0)	S1-011	0(0)	0(0)	0(0)	0(0)	0(0)
1-012	107449459	579947431	795067299	596372909	115372978674420647	853697012427386285	R1-012	0(0)	0(0)	0(0)	0(0)	0(0)	S1-012	0(0)	0(0)	0(0)	0(0)	0(0)
1-013	782072001	784726982	125023986	126483653	839743417637796806	134243482897874117	R1-013	0(0)	0(0)	0(0)	0(0)	0(0)	S1-013	0(0)	0(1)	0(0)	0(1)	0(0)
1-014	304059760	358541937	212312110	192414049	326481681665944177	227968392441102689	R1-014	0(0)	0(0)	0(0)	0(0)	0(0)	S1-014	0(0)	0(0)	0(0)	0(0)	0(0)
1-015	652893980	715929295	837706570	897205737	701039573679748815	899480581345789417	R1-015	0(0)	0(0)	0(0)	0(0)	0(0)	S1-015	0(0)	0(0)	0(0)	0(0)	0(0)
1-016	572530587	58859482	313952309	102926943	614750036840030170	337103725017598559	R1-016	0(0)	0(0)	0(0)	0(0)	0(0)	S1-016	0(0)	0(0)	0(0)	0(0)	0(0)
1-017	370661758	337574708	244859942	899592089	397995032459541300	262916361647206297	R1-017	0(0)	0(0)	0(0)	0(0)	0(0)	S1-017	0(1)	0(0)	0(0)	0(0)	0(0)
1-018	828132032	708195081	54201568	297728537	889199999260701449	58198490785708569	R1-018	0(0)	0(0)	0(1)	0(0)	0(0)	S1-018	0(0)	0(0)	0(0)	0(0)	0(0)
1-019	222120536	863372116	269509813	362390479	238500110335869780	289383958558909391	R1-019	0(0)	0(0)	0(0)	0(0)	0(0)	S1-019	0(0)	0(0)	0(0)	0(0)	0(0)
1-020	432158444	40134889	652218887	173393807	464026595957696745	700314697548023695	R1-020	0(0)	0(0)	0(0)	0(0)	0(0)	S1-020	0(0)	0(0)	0(0)	0(0)	0(0)
1-021	413135426	492046125	147762596	913396687	443600786364303149	158658880261411791	R1-021	0(0)	0(0)	0(1)	0(0)	0(0)	S1-021	0(0)	0(0)	0(0)	0(0)	0(0)
1-022	33220675	2842071	365861414	1050415455	35670428171853271	392840703049994591	R1-022	0(0)	0(0)	0(0)	0(0)	0(0)	S1-022	0(0)	0(0)	0(0)	0(0)	0(0)
1-023	269609634	1038584224	377033607	536618939	289491141217716640	404836753426098107	R1-023	0(0)	0(0)	0(0)	0(0)	0(0)	S1-023	0(0)	0(0)	0(0)	0(0)	0(0)
1-024	888282044	293617893	839055211	648167877	953785582444626149	900928673344012741	R1-024	0(0)	0(0)	0(0)	0(0)	0(0)	S1-024	0(0)	0(0)	0(0)	0(0)	0(0)

Table 4 Detailed Results for Seed Index 1-025 to 1-049, Cases R1-025 to R1-049 and S1-025 to S1-049

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15
1-025	42386421	984960311	306653547	164532735	45512073982332215	329266739056382463	R1-025	0(0)	0(0)	0(0)	0(0)	S1-025	0(0)	0(0)	0(0)	0(0)
1-026	234680417	733465030	772591733	901682567	251986179740125638	829564057500423559	R1-026	0(0)	0(0)	0(0)	0(0)	S1-026	0(0)	0(0)	0(0)	0(0)
1-027	586507865	94005300	628966691	453398717	629758024849451060	675347842482983101	R1-027	0(0)	0(0)	0(0)	0(0)	S1-027	0(1)	0(0)	0(0)	0(0)
1-028	563610329	835340158	565525441	443710243	605171983521040254	607228318981454627	R1-028	0(0)	0(0)	0(0)	0(0)	S1-028	0(0)	0(0)	0(0)	0(0)
1-029	83162548	288554128	520517120	593724521	89295106266561680	558901002445751401	R1-029	0(0)	0(0)	0(0)	0(0)	S1-029	0(0)	0(0)	0(0)	0(0)
1-030	835272475	772104076	163563668	246317771	896866991615598476	175625151464768203	R1-030	0(0)	0(0)	0(0)	0(0)	S1-030	0(0)	0(0)	0(0)	0(0)
1-031	777255959	267640348	913492951	908835499	834572231399169564	980855588326718123	R1-031	0(0)	0(0)	0(0)	0(0)	S1-031	0(0)	0(0)	0(0)	0(0)
1-032	120879209	242072555	281315987	172894285	129793062597409771	302060741174634573	R1-032	0(0)	0(0)	0(0)	0(0)	S1-032	0(0)	0(0)	0(0)	0(0)
1-033	304659303	875602906	743576664	398978843	327125436577391578	798409363886173979	R1-033	0(0)	0(0)	0(0)	0(0)	S1-033	0(0)	0(0)	0(0)	0(0)
1-034	563855909	656678195	839093026	372322333	605435672859516211	900969276615241757	R1-034	0(0)	0(0)	0(0)	0(0)	S1-034	0(0)	0(0)	0(0)	0(0)
1-035	1067910121	68865548	497371574	1016124919	1146659761259466252	534048662088635895	R1-035	0(0)	0(0)	0(0)	0(0)	S1-035	0(0)	0(0)	0(0)	0(0)
1-036	704177739	1035576684	438717446	188660917	756105090929632620	471069270877322421	R1-036	0(0)	0(0)	0(0)	0(0)	S1-036	0(0)	0(0)	0(0)	0(0)
1-037	625675125	630540188	891072872	817761913	671813550579468188	956782211715960441	R1-037	0(0)	0(0)	0(0)	0(0)	S1-037	0(0)	0(0)	0(0)	0(1)
1-038	174857184	128246859	855262178	583925701	187751471815910475	918330771587858373	R1-038	0(0)	0(0)	0(0)	0(1)	S1-038	0(0)	0(0)	0(0)	0(0)
1-039	969163429	548621125	667916886	511753373	1040631308557175621	717170295965793437	R1-039	0(0)	0(0)	0(0)	0(0)	S1-039	0(0)	0(0)	0(0)	0(1)
1-040	105167463	473419816	392664951	919623655	112922704020492328	421620781627234279	R1-040	0(0)	0(0)	0(0)	0(0)	S1-040	0(0)	0(0)	0(0)	0(0)
1-041	33018760	195894313	309369001	140380645	35453623784512553	332182435563178469	R1-041	0(0)	0(0)	0(0)	0(0)	S1-041	0(1)	0(0)	0(0)	0(0)
1-042	381478719	36870100	149208633	573097435	409609655593113556	160211550327064027	R1-042	0(0)	0(0)	0(0)	0(0)	S1-042	0(0)	0(0)	0(0)	0(0)
1-043	64770677	952436349	197801498	933739891	69546985816131197	212387742186192243	R1-043	0(0)	0(0)	0(0)	0(0)	S1-043	0(0)	0(0)	0(0)	0(0)
1-044	278616045	703780897	1044597124	907748657	299161701057746977	1121627622176662833	R1-044	0(0)	0(0)	0(0)	0(0)	S1-044	0(0)	0(0)	0(0)	0(0)
1-045	667749662	410419118	98010552	189161415	716990740461682606	105238029064888263	R1-045	0(0)	0(0)	0(0)	0(0)	S1-045	0(0)	0(0)	0(0)	0(0)
1-046	116479285	534080995	790931	653327095	125068680468196835	849256347925239	R1-046	0(0)	0(0)	0(0)	0(1)	S1-046	0(0)	0(0)	0(0)	0(0)
1-047	820055532	743062416	478212976	522576275	880527923454032784	513477273633284499	R1-047	0(0)	0(0)	0(0)	0(1)	S1-047	0(0)	0(0)	0(0)	0(1)
1-048	78202180	719630233	488671351	271001067	83968952113606553	524706868030285291	R1-048	0(0)	0(0)	0(0)	0(0)	S1-048	0(0)	0(0)	0(0)	0(0)
1-049	806294419	92831124	708244702	676891571	865752040230911380	760471958840708019	R1-049	0(0)	0(0)	0(0)	0(0)	S1-049	0(0)	0(0)	0(0)	0(0)

Table 5 Detailed Results for Seed Index 1-050 to 1-074, Cases R1-050 to R1-074 and S1-050 to S1-074

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15
1-050	67904622	902852672	1071132163	974838723	72912033587163200	1150119403419524035	R1-050	0(0)	0(0)	0(0)	0(0)	S1-050	0(0)	0(0)	0(0)	0(0)
1-051	843178560	755955925	235933766	964297333	905356085728049365	253331953212326517	R1-051	0(0)	0(0)	0(0)	0(0)	S1-051	0(0)	0(0)	0(0)	0(0)
1-052	1059570845	828546647	6390732	911774941	1137705532596067927	6861997146150109	R1-052	0(0)	0(0)	0(0)	0(0)	S1-052	0(0)	0(0)	0(1)	0(0)
1-053	53398868	866537008	2293552	679980695	57336598792392240	2462683387899543	R1-053	0(0)	0(0)	0(0)	0(0)	S1-053	0(0)	0(0)	0(0)	0(0)
1-054	638335845	794612993	267400123	139407003	685407895329494273	287118695947251355	R1-054	0(0)	0(0)	0(0)	0(0)	S1-054	0(0)	0(0)	0(0)	0(0)
1-055	762507952	994986404	188161172	795214287	818736680189970852	202036520824472015	R1-055	0(0)	0(0)	0(0)	0(0)	S1-055	0(0)	0(0)	0(0)	0(1)
1-056	262085967	552746957	671053039	516461371	281412664804130765	720537714613064507	R1-056	0(0)	0(0)	0(0)	0(0)	S1-056	0(0)	0(0)	0(0)	0(0)
1-057	480225314	774130066	219777696	466162513	515638005359462802	235984504643720017	R1-057	0(0)	0(0)	0(0)	0(0)	S1-057	0(0)	0(0)	0(0)	0(0)
1-058	98627315	801642578	747110225	574550309	105900273905965138	802203496295100709	R1-058	0(0)	0(0)	0(0)	0(0)	S1-058	0(0)	0(0)	0(0)	0(0)
1-059	117140291	381973378	888448654	498809443	125778430104204162	953964478775114339	R1-059	0(0)	0(0)	0(0)	0(0)	S1-059	0(0)	0(0)	0(0)	0(0)
1-060	690566630	263229959	520895998	564822455	741490273152963079	559307819571642807	R1-060	0(0)	0(0)	0(0)	0(0)	S1-060	0(0)	0(0)	0(1)	0(0)
1-061	947028137	514946071	597196047	248958027	1016863719716647959	641234373040327755	R1-061	0(0)	0(0)	0(1)	0(0)	S1-061	0(0)	0(0)	0(0)	0(0)
1-062	854514011	593347200	124272401	932222947	917527433398043264	133436475454822371	R1-062	0(0)	0(0)	0(0)	0(0)	S1-062	0(0)	0(0)	0(0)	0(0)
1-063	347953713	89695917	71170827	73335233	373612454553888429	76419093671903681	R1-063	0(0)	0(0)	0(0)	0(0)	S1-063	0(0)	0(0)	0(0)	0(0)
1-064	306206	265789439	619501258	178081677	328786454749183	665184410913296269	R1-064	0(0)	0(0)	0(0)	0(0)	S1-064	0(0)	0(0)	0(0)	0(0)
1-065	513313416	740006465	367208986	136761021	551166084319517249	394287646553591485	R1-065	0(0)	0(0)	0(0)	0(0)	S1-065	0(0)	0(0)	0(0)	0(0)
1-066	472220884	961711543	816343078	868317947	507043314278763959	876541706449812219	R1-066	0(0)	0(0)	0(0)	0(0)	S1-066	0(0)	0(0)	0(0)	0(1)
1-067	869471939	225548383	410090907	92168647	933588385924225119	440331758580163015	R1-067	0(0)	0(0)	0(0)	0(0)	S1-067	0(0)	0(0)	0(0)	0(0)
1-068	577302040	213523761	453810322	566221589	619873345642044721	487275123460528917	R1-068	0(0)	0(0)	0(0)	0(1)	S1-068	0(0)	0(0)	0(0)	0(0)
1-069	963936582	498803679	181577259	657035651	1035019024275809247	194967097932616067	R1-069	0(0)	0(0)	0(0)	0(0)	S1-069	0(0)	0(0)	0(0)	0(0)
1-070	424225444	658260048	378761978	961917983	455508602686029904	406692578081485855	R1-070	0(0)	0(0)	0(0)	0(0)	S1-070	0(0)	0(0)	0(0)	0(0)
1-071	681473402	981522838	324038040	495023111	731726494652488086	347933196610008071	R1-071	0(0)	0(0)	0(0)	0(0)	S1-071	0(0)	0(0)	0(0)	0(0)
1-072	93216701	102469682	291889647	912542093	100090670661472306	313414122889038221	R1-072	0(0)	0(0)	0(0)	0(1)	S1-072	0(0)	0(0)	0(0)	0(0)
1-073	727115480	322056955	231750700	382408695	780734302075892475	248840419713685495	R1-073	0(0)	0(0)	0(0)	0(0)	S1-073	0(0)	0(0)	0(0)	0(0)
1-074	624257153	917668698	986985807	883535961	670291015024935770	1059767941553827929	R1-074	0(0)	0(0)	0(0)	0(0)	S1-074	0(0)	0(0)	0(0)	0(0)

Table 6 Detailed Results for Seed Index 1-075 to 1-099, Cases R1-075 to R1-099 and S1-075 to S1-099

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15	
1-075	719001660	216706975	421599371	275009725	772022154084134815	452688877889802429	R1-075	0(0)	0(0)	0(0)	0(0)	S1-075	0(0)	0(1)	0(0)	0(0)	0(0)
1-076	11937851	163328615	555353757	93729053	12818170070708839	596306556100161821	R1-076	0(0)	0(0)	0(0)	0(0)	S1-076	0(0)	0(0)	0(0)	0(0)	0(0)
1-077	262260864	653129859	83581321	717472907	281600459128305795	89744760780342411	R1-077	0(0)	0(0)	0(0)	0(0)	S1-077	0(0)	0(0)	0(0)	0(0)	0(0)
1-078	78017819	763725932	600026227	550146797	83770996041287788	644273255976964845	R1-078	0(0)	0(0)	0(0)	0(0)	S1-078	0(0)	0(0)	0(0)	0(0)	0(0)
1-079	297369059	486433043	496878948	269635785	319297596298256659	533519708202356937	R1-079	0(0)	0(0)	0(0)	0(0)	S1-079	0(0)	0(0)	0(0)	0(0)	0(0)
1-080	366446193	21410838	1047802748	1032460631	393468603691086870	1125069634862192983	R1-080	0(0)	0(0)	0(0)	0(0)	S1-080	0(0)	0(0)	0(0)	0(0)	0(0)
1-081	539950523	831475184	155860074	188775589	579767460267249136	167353480334310565	R1-081	0(0)	0(1)	0(0)	0(0)	S1-081	0(0)	0(0)	0(1)	0(0)	0(0)
1-082	761778438	1048867442	389066136	45610685	817953370550858354	417756582570882749	R1-082	0(0)	0(0)	0(0)	0(0)	S1-082	0(0)	0(0)	0(0)	0(0)	0(0)
1-083	954070956	1068343759	91603792	211709895	1024425889589207503	98358822919106503	R1-083	0(0)	0(0)	0(0)	0(0)	S1-083	0(0)	0(0)	0(0)	0(0)	0(0)
1-084	588316308	646840681	621089645	664766463	631699826287706473	666889928954578943	R1-084	0(0)	0(0)	0(0)	0(0)	S1-084	0(0)	0(0)	0(0)	0(0)	0(0)
1-085	2186024	809911385	83868010	533095769	2347226206979161	90052590565746009	R1-085	0(0)	0(1)	0(0)	0(0)	S1-085	0(1)	0(0)	0(0)	0(0)	0(0)
1-086	237996472	401664227	272334858	829857533	255546766352509155	292417327997558525	R1-086	0(0)	0(0)	0(0)	0(0)	S1-086	0(0)	0(0)	0(0)	0(0)	0(0)
1-087	178833522	997552837	244148360	1037988903	192021033102176965	262152306430997543	R1-087	0(0)	0(0)	0(0)	0(0)	S1-087	0(0)	0(0)	0(0)	0(0)	0(0)
1-088	829775075	745400748	347850163	851336021	890964203285637548	373501269349653333	R1-088	0(0)	0(0)	0(0)	0(0)	S1-088	0(0)	0(0)	0(0)	0(0)	0(0)
1-089	51691209	848245440	229256069	399965377	55503013884670656	246161830091095233	R1-089	0(0)	0(0)	0(0)	0(0)	S1-089	0(0)	0(0)	0(0)	0(0)	0(0)
1-090	1000417834	445861357	282268949	640565967	1074190470287150573	303083976798388943	R1-090	0(0)	0(0)	0(0)	0(0)	S1-090	0(0)	0(1)	0(0)	0(1)	0(0)
1-091	981531980	629578888	370137091	102186247	1053911939149110408	397431675322580231	R1-091	0(0)	0(0)	0(0)	0(1)	S1-091	0(0)	0(0)	0(0)	0(0)	0(0)
1-092	1003214073	907160183	217684471	281008493	1077192909512649335	233736921229023597	R1-092	0(0)	0(0)	0(0)	0(0)	S1-092	0(0)	0(0)	0(0)	0(0)	0(0)
1-093	44060647	519429199	338887283	428898787	47309759995829327	363877449807722979	R1-093	0(0)	0(0)	0(0)	0(0)	S1-093	0(0)	0(0)	0(0)	0(0)	0(0)
1-094	978098312	51218093	387640996	980244607	1050225065629419181	416226351082461311	R1-094	0(0)	0(1)	0(0)	0(0)	S1-094	0(2)	0(0)	0(0)	0(0)	0(0)
1-095	339754179	662700628	692463548	996691743	364808272533783124	743527074079723295	R1-095	0(0)	0(0)	0(0)	0(0)	S1-095	0(0)	0(0)	0(0)	0(0)	0(0)
1-096	679748555	308790727	260980179	199316995	729874453615855047	280225333626623491	R1-096	0(0)	0(0)	0(0)	0(0)	S1-096	0(0)	0(0)	0(0)	0(0)	0(0)
1-097	71705876	462971317	16675308	788594405	76993598550729141	17904976416276197	R1-097	0(0)	0(0)	0(0)	0(0)	S1-097	0(0)	0(0)	0(0)	0(0)	0(0)
1-098	160580930	87047315	75898535	914975917	172422460764863635	81495432324803757	R1-098	0(1)	0(0)	0(0)	0(0)	S1-098	0(1)	0(0)	0(0)	0(0)	0(0)
1-099	293349745	732362790	216683933	935503497	314981890998597670	232662602386417289	R1-099	0(0)	0(0)	0(0)	0(0)	S1-099	0(0)	0(0)	0(0)	0(0)	0(0)

Table 7 Detailed Results for Seed Index 1-100 to 1-124, Cases R1-100 to R1-124 and S1-100 to S1-124

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-100	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-100	Order 11	Order 12	Order 13	Order 14	Order 15
								0(0)	0(0)	0(0)	0(0)	0(0)		0(0)	0(0)	0(0)	0(0)	0(0)
1-100	703992144	33590217	473835908	838288887	755905808813820873	508777432970905079	R1-100	0(0)	0(0)	0(0)	0(0)	0(0)	S1-100	0(0)	0(0)	0(0)	0(0)	0(0)
1-101	802960342	1011627716	122136720	857120399	862172103230371524	131143305367297679	R1-101	0(0)	0(0)	0(0)	0(0)	0(0)	S1-101	0(0)	0(0)	0(0)	0(0)	0(0)
1-102	40546945	588307562	683662433	971500605	43536951270235242	734076948781198397	R1-102	0(0)	0(0)	0(0)	0(0)	0(0)	S1-102	0(0)	0(0)	0(0)	0(0)	0(0)
1-103	292046320	856754617	413734730	783547015	313582349186042297	444244284425894535	R1-103	0(0)	0(0)	0(0)	0(0)	0(0)	S1-103	0(0)	0(0)	0(0)	0(0)	0(0)
1-104	526330773	638349338	507778805	425816801	565143364866699290	545223340695057121	R1-104	0(0)	0(0)	0(0)	0(0)	0(0)	S1-104	0(0)	0(0)	0(0)	0(0)	0(0)
1-105	1045391660	83636608	601461462	917128907	1122480747886424448	645814328190715595	R1-105	0(0)	0(0)	0(1)	0(0)	0(0)	S1-105	0(0)	0(0)	0(0)	0(0)	0(0)
1-106	410256371	6870849	222630873	228401427	440509424112031553	239048079882133779	R1-106	0(0)	0(0)	0(0)	0(0)	0(0)	S1-106	0(0)	0(0)	0(0)	0(0)	0(0)
1-107	510630501	650945360	1043238128	517101733	548285326184719184	1120168410942167205	R1-107	0(0)	0(0)	0(0)	0(0)	0(0)	S1-107	0(0)	0(0)	0(0)	0(0)	0(0)
1-108	415729609	923731599	351115546	544354361	446386269582198415	377007447341150265	R1-108	0(0)	0(1)	0(0)	0(0)	0(0)	S1-108	0(0)	0(0)	0(0)	0(0)	0(0)
1-109	587929224	718778476	1150810	16406427	631284198079443052	1235672844883867	R1-109	0(0)	0(0)	0(0)	0(0)	0(0)	S1-109	0(1)	0(0)	0(0)	0(0)	0(0)
1-110	886652137	406590925	279254645	341942945	952035483242468813	299847392224715425	R1-110	0(1)	0(1)	0(0)	0(0)	0(0)	S1-110	0(0)	0(0)	0(0)	0(0)	0(0)
1-111	708409527	432068683	742938884	138127519	760648938092025931	797724552564811935	R1-111	0(0)	0(0)	0(0)	0(0)	0(0)	S1-111	0(0)	0(0)	0(0)	0(0)	0(0)
1-112	558907792	332109149	20434797	78537225	600122672362001757	21941696282386953	R1-112	0(0)	0(0)	0(0)	0(0)	0(0)	S1-112	0(0)	0(0)	0(0)	0(0)	0(0)
1-113	216956788	563597792	775193828	158644125	232955577839899104	832358034988906397	R1-113	0(0)	0(0)	0(0)	0(0)	0(0)	S1-113	0(0)	0(0)	0(0)	0(0)	0(0)
1-114	140857621	93402883	185597116	761473569	151244718990243587	199283386624453153	R1-114	0(0)	0(0)	0(0)	0(0)	0(1)	S1-114	0(0)	0(0)	0(0)	0(0)	0(0)
1-115	992467481	796355751	259791679	95851921	1065653844105981095	278949191365334417	R1-115	0(1)	0(0)	0(0)	0(0)	0(0)	S1-115	0(0)	0(0)	0(0)	0(0)	0(0)
1-116	416741887	17337362	992417388	201019929	447473193901919250	1065600056561455641	R1-116	0(0)	0(0)	0(0)	0(0)	0(0)	S1-116	0(0)	0(0)	0(0)	0(0)	0(0)
1-117	709695681	433978960	794411757	715287931	762029935435841104	852993129683512699	R1-117	0(1)	0(0)	0(0)	0(0)	0(0)	S1-117	0(0)	0(0)	0(0)	0(1)	0(0)
1-118	34857152	942476432	1060611280	906922407	37427582910401680	1138822691249097127	R1-118	0(0)	0(0)	0(0)	0(0)	0(0)	S1-118	0(0)	0(0)	0(0)	0(1)	0(0)
1-119	529426749	1025591773	200802245	271134783	568467644171241949	215609769080729663	R1-119	0(0)	0(0)	0(0)	0(0)	0(0)	S1-119	0(0)	0(0)	0(0)	0(0)	0(0)
1-120	739433684	1008739120	906273461	246234813	793960873593938736	973103719303167677	R1-120	0(0)	0(0)	0(0)	0(0)	0(0)	S1-120	0(0)	0(0)	0(0)	0(0)	0(1)
1-121	417101363	770296473	1035967839	54615871	447859179070802585	1112361997107814207	R1-121	0(0)	0(0)	0(0)	0(0)	0(0)	S1-121	0(0)	0(0)	0(0)	0(0)	0(0)
1-122	590196915	333021586	487710187	1010701165	633719112364294546	523674826783462253	R1-122	0(0)	0(0)	0(0)	0(0)	0(0)	S1-122	0(0)	0(1)	0(0)	0(0)	0(0)
1-123	131919203	477503732	1025865054	78746639	141647166127350004	1101514214338565135	R1-123	0(0)	0(0)	0(0)	0(0)	0(0)	S1-123	0(0)	0(0)	0(0)	0(0)	0(0)
1-124	991140099	467144723	352869173	225670905	1064228578206945299	378890389676062457	R1-124	0(0)	0(0)	0(0)	0(0)	0(0)	S1-124	0(0)	0(0)	0(0)	0(0)	0(1)

Table 8 Detailed Results for Seed Index 1-125 to 1-149, Cases R1-125 to R1-149 and S1-125 to S1-149

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-125	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-125	Order 11	Order 12	Order 13	Order 14	Order 15
1-125	792136289	263770168	1046679469	980908415	850549864071221304	1123863523168319871	R1-125	0(0)	0(0)	0(0)	0(0)	0(0)	S1-125	0(0)	0(0)	0(0)	0(0)	0(0)
1-126	428822589	995900746	153663645	1021058493	460444749881163082	164995083485846973	R1-126	0(0)	0(0)	0(0)	0(0)	0(0)	S1-126	0(0)	0(0)	0(0)	0(0)	0(0)
1-127	876740815	717641036	1065842284	70777667	941393282590987596	1144439438189263683	R1-127	0(0)	0(0)	0(1)	0(1)	0(0)	S1-127	0(0)	0(0)	0(0)	0(0)	0(0)
1-128	574837163	378374679	601287209	32933013	617226704280979991	645627224572462229	R1-128	0(0)	0(0)	0(0)	0(1)	0(0)	S1-128	0(0)	0(0)	0(0)	0(0)	0(0)
1-129	601737578	200557752	345172365	397136773	646110804771620024	370626005186630533	R1-129	0(0)	0(0)	0(0)	0(0)	0(0)	S1-129	0(0)	0(0)	0(0)	0(0)	0(0)
1-130	292577451	155171433	1057215872	810320601	314152646053182057	1135176899573351129	R1-130	0(0)	0(0)	0(0)	0(0)	0(0)	S1-130	0(0)	0(0)	0(0)	0(0)	0(0)
1-131	473439800	128417827	405299082	398203171	508352114534613027	435186575970408739	R1-131	0(0)	0(1)	0(0)	0(0)	0(0)	S1-131	0(0)	0(0)	0(0)	0(0)	0(0)
1-132	485827881	961196847	962325213	132667919	521653716056191791	1033288829620476431	R1-132	0(0)	0(0)	0(0)	0(0)	0(0)	S1-132	0(0)	0(1)	0(0)	0(0)	0(0)
1-133	387496972	187263709	528233072	649004503	416071705697020637	567185942875407831	R1-133	0(0)	0(0)	0(0)	0(0)	0(0)	S1-133	0(0)	0(0)	0(0)	0(0)	0(0)
1-134	575666517	872559552	283015974	35078875	618117216851866560	303886088178975451	R1-134	0(0)	0(0)	0(0)	0(0)	0(0)	S1-134	0(0)	0(0)	0(0)	0(0)	0(0)
1-135	593949147	1032076364	694170499	870653937	637748041495100492	745359898633904113	R1-135	0(0)	0(0)	0(0)	0(0)	0(1)	S1-135	0(0)	0(0)	0(0)	0(0)	0(0)
1-136	697882049	422790849	550444292	215688947	749345144652908225	591035058318157555	R1-136	0(0)	0(0)	0(0)	0(0)	0(0)	S1-136	0(0)	0(0)	0(0)	0(0)	0(0)
1-137	34210655	585101778	625487573	943808923	36733411685036498	671612168466162075	R1-137	0(0)	0(0)	0(0)	0(0)	0(0)	S1-137	0(0)	0(0)	0(0)	0(0)	0(0)
1-138	145032707	919609065	110362513	1009317935	155727684273446633	118500847019161647	R1-138	0(0)	0(0)	0(0)	0(0)	0(0)	S1-138	0(0)	0(0)	0(0)	0(0)	0(1)
1-139	570642580	444203174	680005707	191533211	612722805145469094	730150568356122779	R1-139	0(0)	0(0)	0(0)	0(0)	0(0)	S1-139	0(0)	0(0)	0(1)	0(0)	0(0)
1-140	746004015	215913689	524925140	238306655	801015711993337049	563634077525362015	R1-140	0(1)	0(0)	0(0)	0(0)	0(0)	S1-140	0(0)	0(0)	0(0)	0(0)	0(0)
1-141	192524164	428928722	970586305	500290847	206721247446363858	1042159109980411167	R1-141	0(0)	0(0)	0(0)	0(1)	0(0)	S1-141	0(0)	0(0)	0(0)	0(0)	0(0)
1-142	586041895	456779196	412183484	310023685	629257693734495676	442578646242858501	R1-142	0(0)	0(0)	0(0)	0(0)	0(0)	S1-142	0(0)	0(0)	0(0)	0(0)	0(0)
1-143	811467223	200861862	624416040	445075249	871306296341096614	670461618169532209	R1-143	0(0)	0(0)	0(1)	0(0)	0(0)	S1-143	0(0)	0(0)	0(1)	0(0)	0(0)
1-144	720333340	508060262	392665337	168010001	773452034887672422	421621195339964689	R1-144	0(0)	0(0)	0(0)	0(0)	0(0)	S1-144	0(0)	0(0)	0(0)	0(0)	0(0)
1-145	122033813	148696900	689198954	847887497	131032809108991812	740021742814739593	R1-145	0(0)	0(0)	0(0)	0(0)	0(0)	S1-145	0(0)	0(0)	0(0)	0(0)	0(0)
1-146	304795204	456098609	203318636	514122053	327271358745510705	218311723585954117	R1-146	0(0)	0(0)	0(0)	0(0)	0(0)	S1-146	0(0)	0(0)	0(0)	0(0)	0(0)
1-147	243052965	316825036	881984746	602135735	260976134284533196	947023910512352439	R1-147	0(0)	0(0)	0(0)	0(0)	0(0)	S1-147	0(0)	0(1)	0(0)	0(0)	0(0)
1-148	878504590	592867096	783763420	79691293	943287121451839256	841559564254969373	R1-148	0(0)	0(0)	0(0)	0(0)	0(0)	S1-148	0(0)	0(0)	0(0)	0(0)	0(0)
1-149	432510954	458223894	542399684	674398757	464405101106163990	582397226709582373	R1-149	0(0)	0(0)	0(0)	0(0)	0(0)	S1-149	0(0)	0(0)	0(0)	0(0)	0(0)

Table 9 Detailed Results for Seed Index 1-150 to 1-174, Cases R1-150 to R1-174 and S1-150 to S1-174

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-150	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-150	Order 11	Order 12	Order 13	Order 14	Order 15
1-150	734798757	976071678	650457577	894457465	788984158590184446	698423506057057913	R1-150	0(0)	0(0)	0(0)	0(0)	0(0)	S1-150	0(0)	0(0)	0(0)	0(0)	0(0)
1-151	553106965	241562877	885604227	56297857	593894081707767037	950910298097387905	R1-151	0(0)	0(0)	0(0)	0(0)	0(0)	S1-151	0(0)	0(0)	0(0)	0(0)	0(0)
1-152	249673314	315240183	320656162	20271963	268084679893724919	344301932282991451	R1-152	0(0)	0(0)	0(0)	0(0)	0(0)	S1-152	0(0)	0(0)	0(0)	0(0)	0(0)
1-153	851206801	513734126	425680517	539211593	913976343620679150	457070975304054601	R1-153	0(0)	0(0)	0(0)	0(0)	0(0)	S1-153	0(0)	0(0)	0(0)	0(1)	0(0)
1-154	269971247	404807265	198327190	620091745	289879419586141793	212952199359486305	R1-154	0(0)	0(0)	0(0)	0(0)	0(0)	S1-154	0(0)	0(0)	0(0)	0(0)	0(1)
1-155	436682241	763436453	934332960	231012463	468883986723184037	1003232376924731503	R1-155	0(0)	0(0)	0(0)	0(1)	0(0)	S1-155	0(0)	0(0)	0(0)	0(0)	0(0)
1-156	458640459	373719614	977033408	508082843	492461443380576830	1049081634122939035	R1-156	0(0)	0(0)	0(0)	0(0)	0(0)	S1-156	0(0)	0(0)	0(0)	0(0)	0(0)
1-157	458373367	261102869	426614066	642301707	492174655416704277	458073366013198091	R1-157	0(0)	0(0)	0(0)	0(0)	0(0)	S1-157	0(0)	0(0)	0(0)	0(0)	0(0)
1-158	815076547	144131536	251817608	687146363	875181778419533264	270387098416383355	R1-158	0(0)	0(0)	0(0)	0(0)	0(0)	S1-158	0(0)	0(0)	0(0)	0(0)	0(0)
1-159	120622003	15715456	550727488	33626649	129516889531468928	591339137525684761	R1-159	0(0)	0(0)	0(0)	0(0)	0(0)	S1-159	0(0)	0(0)	0(0)	0(0)	0(0)
1-160	711037394	997835779	558885674	1042998317	763470589363602435	600098924051227693	R1-160	0(0)	0(0)	0(0)	0(0)	0(0)	S1-160	0(0)	0(0)	0(0)	0(0)	0(0)
1-161	450202039	872884943	1060971568	954315551	483400759397264079	1139209547590775583	R1-161	0(0)	0(0)	0(0)	0(0)	0(0)	S1-161	0(0)	0(0)	0(0)	0(0)	0(1)
1-162	855486532	1035864319	218841986	401057311	918571670312978687	234979793616479775	R1-162	0(0)	0(0)	0(0)	0(0)	0(0)	S1-162	0(0)	0(0)	0(0)	0(0)	0(0)
1-163	508995448	412935679	941590225	905724261	546529701156152831	1011024806557794661	R1-163	0(0)	0(0)	0(0)	0(0)	0(0)	S1-163	0(0)	0(0)	0(0)	0(0)	0(0)
1-164	355060545	244549382	28120504	821859027	381243357463283462	30194162078618323	R1-164	0(0)	0(0)	0(0)	0(0)	0(0)	S1-164	0(0)	0(0)	0(0)	0(0)	0(0)
1-165	200557760	142193516	263077642	151827297	215347255181947756	282477467326526305	R1-165	0(0)	0(0)	0(0)	0(0)	0(0)	S1-165	0(0)	0(0)	0(0)	0(0)	0(0)
1-166	691251060	1067669409	563389680	229510181	742225175074002849	604935062855486501	R1-166	0(0)	0(0)	0(0)	0(0)	0(0)	S1-166	0(0)	0(0)	0(0)	0(0)	0(0)
1-167	49988822	739209082	628051306	211658165	53675089653100410	674364955081680309	R1-167	0(0)	0(0)	0(0)	0(0)	0(0)	S1-167	0(1)	0(0)	0(0)	0(0)	0(0)
1-168	1039787522	841831455	73612149	650898025	1116463351286551583	79040443786717801	R1-168	0(0)	0(0)	0(1)	0(0)	0(0)	S1-168	0(0)	0(0)	0(0)	0(0)	0(0)
1-169	399106656	860362119	185595579	792034121	428537509644342663	199281736313830217	R1-169	0(0)	0(0)	0(0)	0(0)	0(0)	S1-169	0(0)	0(0)	0(0)	0(0)	0(0)
1-170	931026057	939280740	937706249	849794931	999681617573988708	1006854419027253107	R1-170	0(0)	0(1)	0(0)	0(0)	0(0)	S1-170	0(0)	0(0)	0(0)	0(0)	0(0)
1-171	962273417	1057506152	106399298	402108527	1033233215013798760	114245376708948079	R1-171	0(0)	0(0)	0(0)	0(1)	0(0)	S1-171	0(0)	0(0)	0(1)	0(0)	0(0)
1-172	91181776	840276966	341365452	531912417	97905687318076390	366538363612976865	R1-172	0(1)	0(0)	0(0)	0(0)	0(1)	S1-172	0(0)	0(0)	0(0)	0(0)	0(0)
1-173	420999385	332940656	390890131	622240157	452044647885718896	419715082865779101	R1-173	0(0)	0(0)	0(0)	0(0)	0(1)	S1-173	0(0)	0(0)	0(0)	0(0)	0(0)
1-174	285729425	604348882	1042010432	838444259	306799634574320082	1118850182721152227	R1-174	0(0)	0(0)	0(0)	0(0)	0(0)	S1-174	0(0)	0(0)	0(0)	0(0)	0(0)

Table 10 Detailed Results for Seed Index 1-175 to 1-199, Cases R1-175 to R1-199 and S1-175 to S1-199

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-175	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-175	Order 11	Order 12	Order 13	Order 14	Order 15
1-175	594377861	155941092	413899406	45367687	638208368771299556	444421103196324231	R1-175	0(0)	0(0)	0(0)	0(0)	0(0)	S1-175	0(0)	0(0)	0(0)	0(0)	0(0)
1-176	471729563	186684656	379307919	569915463	506515761597027568	407278777374619719	R1-176	0(0)	0(0)	0(0)	0(0)	0(0)	S1-176	0(0)	0(1)	0(0)	0(0)	0(0)
1-177	841788634	37283662	228836223	1003247505	903863663330912078	245711024484538257	R1-177	0(0)	0(0)	0(0)	0(0)	0(0)	S1-177	0(0)	0(0)	0(0)	0(0)	0(1)
1-178	488792065	735045398	688417349	927386847	524836484164871958	739182500915891423	R1-178	0(0)	0(1)	0(0)	0(0)	0(0)	S1-178	0(1)	0(0)	0(0)	0(0)	0(0)
1-179	862082983	107342095	130727891	237632639	925654554713123087	140368004367645823	R1-179	0(0)	0(0)	0(0)	0(0)	0(0)	S1-179	0(0)	0(0)	0(0)	0(0)	0(0)
1-180	695647696	598906393	723481240	428116721	746946026563343897	776832066695498481	R1-180	0(0)	0(0)	0(1)	0(0)	0(0)	S1-180	0(0)	0(0)	0(0)	0(0)	0(0)
1-181	737813584	700368082	183257896	29765027	792221304156505298	196771667543207331	R1-181	0(0)	0(0)	0(0)	0(0)	0(0)	S1-181	0(0)	0(0)	0(0)	0(0)	0(0)
1-182	810885875	126884087	852725299	1004222945	870682078605220087	915606818923428321	R1-182	0(0)	0(0)	0(0)	0(0)	0(0)	S1-182	0(0)	0(0)	0(0)	0(0)	0(0)
1-183	743742416	598030367	274285945	655962963	798587338940037151	294512291537826643	R1-183	0(0)	0(0)	0(0)	0(0)	0(0)	S1-183	0(0)	0(0)	0(0)	0(0)	0(0)
1-184	557230290	582226681	148725046	1045875265	598321468554875641	159692303212399169	R1-184	0(0)	0(0)	0(0)	0(0)	0(1)	S1-184	0(0)	0(0)	0(0)	0(0)	0(0)
1-185	908683834	468862901	768217751	602926815	975691837827336117	824867529790844639	R1-185	0(0)	0(0)	0(0)	0(0)	0(0)	S1-185	0(1)	0(0)	0(0)	0(0)	0(1)
1-186	439812136	706752769	549347830	890826529	472244685832728833	589857741885468449	R1-186	0(1)	0(1)	0(0)	0(0)	0(0)	S1-186	0(0)	0(0)	0(0)	0(0)	0(1)
1-187	678230769	788770526	249342988	868349779	728244743787753182	267729995605079891	R1-187	0(0)	0(0)	0(0)	0(0)	0(0)	S1-187	0(1)	0(0)	0(0)	0(0)	0(0)
1-188	459911911	901994622	570291734	856015659	493826655098460286	612346087533298475	R1-188	0(0)	0(1)	0(0)	0(0)	0(1)	S1-188	0(0)	0(0)	0(0)	0(0)	0(0)
1-189	657956547	720102778	511893993	504419703	706475463608624506	549641990242882935	R1-189	0(0)	0(0)	0(0)	0(0)	0(0)	S1-189	0(0)	0(0)	0(0)	0(0)	0(0)
1-190	1022710079	433251327	832876116	288435805	1098126586081895423	894293920248311389	R1-190	0(0)	0(0)	0(0)	0(0)	0(0)	S1-190	0(0)	0(0)	0(0)	0(1)	0(0)
1-191	173496701	257696078	308653995	399579339	186290664447418702	331414703975766219	R1-191	0(0)	0(0)	0(0)	0(0)	0(0)	S1-191	0(0)	0(1)	0(0)	0(0)	0(0)
1-192	678715719	747869361	718352137	111053871	728765454844400817	771324733967731759	R1-192	0(0)	0(0)	0(0)	0(0)	0(0)	S1-192	0(0)	0(0)	0(0)	0(0)	0(0)
1-193	964940566	841882683	941684727	873987133	1036097044230315067	1011126277275909181	R1-193	0(0)	0(0)	0(0)	0(0)	0(0)	S1-193	0(0)	0(0)	0(0)	0(0)	0(0)
1-194	984974877	915973821	137540557	285930293	1057608721940129469	147683048833086261	R1-194	0(1)	0(0)	0(0)	0(0)	0(0)	S1-194	0(1)	0(1)	0(0)	0(0)	0(0)
1-195	137394796	764310815	720683534	235667879	147526539629458719	773828052559593895	R1-195	0(0)	0(0)	0(0)	0(0)	0(0)	S1-195	0(0)	0(0)	0(0)	0(0)	0(0)
1-196	779373209	63619416	744517912	231148879	836845611072012632	799420021062700367	R1-196	0(0)	0(0)	0(0)	0(0)	0(0)	S1-196	0(0)	0(0)	0(0)	0(0)	0(0)
1-197	826512100	314569035	383840458	533757377	887460610126639435	412145554031672769	R1-197	0(0)	0(0)	0(0)	0(0)	0(0)	S1-197	0(0)	0(0)	0(0)	0(0)	0(0)
1-198	476250573	222784018	759999603	73354087	511370159156849170	816043360037849959	R1-198	0(0)	0(0)	0(0)	0(0)	0(0)	S1-198	0(0)	0(0)	0(0)	0(0)	0(0)
1-199	178052190	205881118	186142716	3833297	191182083463675678	199869219405987281	R1-199	0(0)	0(0)	0(0)	0(0)	0(0)	S1-199	0(0)	0(0)	0(0)	0(0)	0(0)

Table 11 Detailed Results for Seed Index 1-200 to 1-224, Cases R1-200 to R1-224 and S1-200 to S1-224

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15	
1-200	451134907	322008131	742419303	144723343	484402418234258499	797166656720752015	R1-200	0(0)	0(0)	0(0)	0(0)	0(0)	S1-200	0(0)	0(0)	0(0)	0(0)
1-201	780682223	402327761	881064616	178800003	838251154490722513	946035928024499587	R1-201	0(0)	0(0)	0(0)	0(0)	0(0)	S1-201	0(1)	0(0)	0(1)	0(0)
1-202	970484860	311088554	831138268	790850533	1042050184051873194	892427920669371365	R1-202	0(0)	0(0)	0(0)	0(0)	0(0)	S1-202	0(0)	0(0)	0(0)	0(0)
1-203	751793478	649404660	908378519	503526509	807232100988428532	975364008377005165	R1-203	0(0)	0(0)	0(0)	0(0)	0(0)	S1-203	0(0)	0(0)	0(0)	0(1)
1-204	488711387	411598389	407049464	514086615	524749856498548277	437066034447668951	R1-204	0(0)	0(0)	0(0)	0(0)	0(0)	S1-204	0(0)	0(0)	0(0)	0(0)
1-205	348229627	916860762	690321888	295669859	373908715782680410	741227483463913571	R1-205	0(0)	0(0)	0(0)	0(0)	0(0)	S1-205	0(0)	0(0)	0(0)	0(0)
1-206	773021831	877611426	706239361	224625895	830025871687371170	758318739885360359	R1-206	0(0)	0(0)	0(0)	0(0)	0(0)	S1-206	0(0)	0(0)	0(1)	0(0)
1-207	333962029	345651089	28954453	228512315	358588998510851985	31089607405654587	R1-207	0(0)	0(0)	0(0)	0(0)	0(0)	S1-207	0(0)	0(0)	0(0)	0(0)
1-208	134349641	343755470	876711535	224209777	144256828924840654	941361842936949617	R1-208	0(0)	0(0)	0(0)	0(0)	0(0)	S1-208	0(0)	0(0)	0(0)	0(0)
1-209	67981647	553285372	736160394	324534339	72994738201589500	790446204534652995	R1-209	0(0)	0(0)	0(0)	0(0)	0(0)	S1-209	0(0)	0(0)	0(0)	0(0)
1-210	991462796	852776321	838348182	938572183	1064575071857956225	900169507026336151	R1-210	0(0)	0(0)	0(0)	0(0)	0(0)	S1-210	0(0)	0(0)	0(0)	0(0)
1-211	1034268740	963274222	809285269	79084027	1110537604357055982	868963440951474683	R1-211	0(0)	0(0)	0(0)	0(0)	0(2)	S1-211	0(1)	0(0)	0(0)	0(0)
1-212	321445891	456038092	942567184	912980017	345149897775683276	1012073808303683633	R1-212	0(0)	0(0)	0(0)	0(0)	0(0)	S1-212	0(0)	0(0)	0(0)	0(0)
1-213	979947372	637207364	901713122	1033710995	1052210479272493892	968207093374725523	R1-213	0(0)	0(0)	0(0)	0(0)	0(0)	S1-213	0(0)	0(0)	0(0)	0(0)
1-214	868946367	807640946	351069383	327176917	933024057868394354	376957879980151509	R1-214	0(0)	0(0)	0(0)	0(0)	0(0)	S1-214	0(0)	0(0)	0(0)	0(1)
1-215	543749252	90941383	72775965	513258841	583846313732057031	78142597915719001	R1-215	0(0)	0(0)	0(0)	0(0)	0(0)	S1-215	0(0)	0(0)	0(0)	0(1)
1-216	741828891	977750012	476829279	63623993	796532707495987196	511991539833688889	R1-216	0(0)	0(0)	0(1)	0(0)	0(0)	S1-216	0(0)	0(0)	0(0)	0(0)
1-217	195837690	30606358	966234377	344293281	210279118499152918	1037486262715776929	R1-217	0(0)	0(0)	0(0)	0(0)	0(0)	S1-217	0(0)	0(0)	0(0)	0(0)
1-218	462446365	911021247	763020370	313324325	496548004368291007	819286884146279205	R1-218	0(0)	0(0)	0(0)	0(0)	0(0)	S1-218	0(0)	0(0)	0(0)	0(0)
1-219	714733297	779006590	203738888	603872819	767439034773320318	218762965824724531	R1-219	0(0)	0(0)	0(0)	0(0)	0(0)	S1-219	0(0)	0(0)	0(0)	0(0)
1-220	936805435	638733724	1070451305	68057405	1005887177148747164	1149388336801937725	R1-220	0(0)	0(0)	0(0)	0(0)	0(0)	S1-220	0(0)	0(0)	0(0)	0(0)
1-221	926885416	711290792	988595912	247144805	995235637926129576	1061496777996968293	R1-221	0(0)	0(0)	0(0)	0(0)	0(0)	S1-221	0(0)	0(0)	0(0)	0(0)
1-222	81221116	1057834499	211270493	950502089	87210510298990083	226849965461701321	R1-222	0(0)	0(0)	0(0)	0(1)	0(0)	S1-222	0(0)	0(0)	0(0)	0(1)
1-223	454346956	95074279	180420871	785415051	487851329359362023	193725435900623755	R1-223	0(0)	0(0)	0(0)	0(0)	0(0)	S1-223	0(0)	0(0)	0(0)	0(0)
1-224	716419852	612562252	1037507509	953868351	769249959248852300	1114015206081224767	R1-224	0(0)	0(0)	0(0)	0(0)	0(0)	S1-224	0(0)	0(0)	0(0)	0(0)

Table 12 Detailed Results for Seed Index 1-225 to 1-249, Cases R1-225 to R1-249 and S1-225 to S1-249

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-225	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-225	Order 11	Order 12	Order 13	Order 14	Order 15
1-225	350457777	528009503	54953256	1040380541	376301173238974751	59005610372559485	R1-225	0(0)	0(0)	0(0)	0(0)	0(0)	S1-225	0(0)	0(0)	0(0)	0(0)	0(0)
1-226	522181244	677833988	915814316	361726023	560687842068983044	983348134468878407	R1-226	0(0)	0(0)	0(0)	0(0)	0(0)	S1-226	0(0)	0(0)	0(0)	0(0)	0(0)
1-227	986807079	856074122	155318460	152395357	1059576033797646218	166771926693666397	R1-227	0(0)	0(0)	0(1)	0(0)	0(0)	S1-227	0(0)	0(0)	0(0)	0(0)	0(0)
1-228	427629577	319048561	209271724	493295537	459163762323377009	224703803132680113	R1-228	0(0)	0(1)	0(0)	0(0)	0(0)	S1-228	0(0)	0(0)	0(0)	0(0)	0(0)
1-229	621430767	160694135	568715023	1053733557	667256205408993143	610653107185955509	R1-229	0(1)	0(0)	0(0)	0(0)	0(0)	S1-229	0(0)	0(0)	0(0)	0(0)	0(0)
1-230	442736054	811576252	851008505	898606819	475384218984098748	913763425296819939	R1-230	0(0)	0(0)	0(0)	0(0)	0(0)	S1-230	0(0)	0(0)	0(0)	0(0)	0(0)
1-231	853978757	959221094	532540464	703791587	916952709157653862	571810969872957923	R1-231	0(0)	0(0)	0(0)	0(0)	0(0)	S1-231	0(0)	0(0)	0(0)	0(0)	0(0)
1-232	677968228	228411427	455809974	890463149	727962841975179299	489422233770615725	R1-232	0(0)	0(0)	0(1)	0(0)	0(0)	S1-232	0(0)	0(0)	0(0)	0(0)	0(0)
1-233	1019004661	604538097	699605625	91238291	1094147923971179761	751195819959398291	R1-233	0(0)	0(0)	0(0)	0(0)	0(0)	S1-233	0(0)	0(0)	0(1)	0(0)	0(0)
1-234	766070871	921516331	91873636	849325457	822562335262325035	98648566345477521	R1-234	0(0)	0(0)	0(0)	0(0)	0(0)	S1-234	0(0)	0(0)	0(0)	0(0)	0(0)
1-235	301729463	723807287	904467532	186119317	323979544679967799	971164617744577685	R1-235	0(0)	0(0)	0(0)	0(0)	0(0)	S1-235	0(0)	0(0)	0(0)	0(0)	0(0)
1-236	149199069	251326693	126160137	746624573	160201280738488549	135463416365094461	R1-236	0(0)	0(0)	0(1)	0(0)	0(0)	S1-236	0(0)	0(0)	0(0)	0(0)	0(0)
1-237	1026763474	1022737172	131480226	119618075	1102478886412073748	141175817804790299	R1-237	0(0)	0(0)	0(0)	0(0)	0(0)	S1-237	0(0)	0(0)	0(0)	0(0)	0(0)
1-238	963738994	643293368	900288127	163816175	1034806865920778424	966677015774339823	R1-238	0(0)	0(0)	0(1)	0(0)	0(0)	S1-238	0(0)	0(0)	0(0)	0(0)	0(0)
1-239	801476632	910786825	22747067	696124423	860578981647843593	24424477907354631	R1-239	0(0)	0(0)	0(0)	0(0)	0(0)	S1-239	0(0)	0(0)	0(0)	0(0)	0(0)
1-240	733254236	583047319	1063600623	29755009	787325741401413783	1142032472977311361	R1-240	0(0)	0(0)	0(0)	0(0)	0(0)	S1-240	0(0)	0(0)	0(0)	0(0)	0(0)
1-241	1032687839	297479138	833597240	138993753	1108840124167957474	895068221097959513	R1-241	0(0)	0(0)	0(0)	0(0)	0(0)	S1-241	0(0)	0(0)	0(0)	0(0)	0(0)
1-242	807726899	849146853	21429535	44338319	867290154675270629	23009788042710159	R1-242	0(0)	0(0)	0(0)	0(0)	0(0)	S1-242	0(0)	0(0)	0(0)	0(0)	0(0)
1-243	112328995	289684995	947040853	532177547	120612340269071875	1016877373434913419	R1-243	0(0)	0(0)	0(0)	0(0)	0(0)	S1-243	0(0)	0(0)	0(0)	0(0)	0(0)
1-244	16092188	139312263	475688694	307358579	17278855434583175	510766846259096435	R1-244	0(0)	0(0)	0(0)	0(0)	0(0)	S1-244	0(0)	0(0)	0(0)	0(0)	0(0)
1-245	523646810	579896957	623635367	248548765	562261481481078397	669623376722038173	R1-245	0(0)	0(0)	0(0)	0(0)	0(0)	S1-245	0(0)	0(0)	0(1)	0(0)	0(0)
1-246	597355241	92619491	40707717	156798773	641405306139919075	43709578459254581	R1-246	0(0)	0(0)	0(0)	0(0)	0(0)	S1-246	0(1)	0(0)	0(0)	0(0)	0(0)
1-247	135726149	880881739	836396503	938434481	145734843672637515	898073907656875953	R1-247	0(0)	0(0)	0(0)	0(0)	0(1)	S1-247	0(0)	0(0)	0(0)	0(0)	0(0)
1-248	855555428	371681078	195896122	47384277	918645646165501750	210341859398190805	R1-248	0(0)	0(0)	0(0)	0(0)	0(0)	S1-248	0(0)	0(0)	0(0)	0(0)	0(0)
1-249	216693741	476005789	167825088	1046509165	232673133186729373	180200817148589677	R1-249	0(0)	0(0)	0(0)	0(0)	0(0)	S1-249	0(0)	0(0)	0(0)	0(0)	0(0)

Table 13 Detailed Results for Seed Index 1-250 to 1-274, Cases R1-250 to R1-274 and S1-250 to S1-274

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-250	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-250	Order 11	Order 12	Order 13	Order 14	Order 15
1-250	249653337	98732683	633093909	851486955	268063229536799371	679779409464436971	R1-250	0(0)	0(0)	0(0)	0(0)	0(0)	S1-250	0(0)	0(0)	0(0)	0(0)	0(0)
1-251	675680376	369412059	539023182	558250783	725506279736657883	578771735177214751	R1-251	0(1)	0(0)	0(0)	0(0)	0(0)	S1-251	0(0)	0(0)	0(0)	0(0)	0(0)
1-252	831354307	759650589	542060558	529811259	892659890748086557	582033092795189051	R1-252	0(0)	0(1)	0(0)	0(0)	0(0)	S1-252	0(0)	0(0)	0(0)	0(0)	0(0)
1-253	986075258	387619083	265882351	278295017	1058790246513809675	285489000810443241	R1-253	0(1)	0(0)	0(0)	0(0)	0(0)	S1-253	0(1)	0(0)	0(0)	0(0)	0(0)
1-254	883684756	1004093795	255879971	905056771	948849282752528739	274749027691663875	R1-254	0(0)	0(0)	0(1)	0(0)	0(0)	S1-254	0(0)	0(0)	0(0)	0(0)	0(0)
1-255	6537805	178311931	717828681	304351303	7019914843968251	770762677560805447	R1-255	0(0)	0(0)	0(0)	0(0)	0(0)	S1-255	0(0)	0(0)	0(0)	0(0)	0(0)
1-256	476714536	801999341	673070002	517817839	511868336213953005	722703412144981487	R1-256	0(0)	0(0)	0(0)	0(0)	0(1)	S1-256	0(0)	0(0)	0(0)	0(0)	0(0)
1-257	269397085	30089261	389275196	262852949	289262917458272301	417981059253850453	R1-257	0(0)	0(0)	0(0)	0(0)	0(0)	S1-257	0(0)	0(0)	0(0)	0(0)	0(0)
1-258	132888453	1017235458	613659892	985173045	142687890929993730	658912292736896053	R1-258	0(0)	0(0)	0(0)	0(0)	0(0)	S1-258	0(0)	0(0)	0(0)	0(0)	0(0)
1-259	1072421307	670193745	545852483	275185213	1151503610944837713	586104641006534205	R1-259	0(0)	0(0)	0(0)	0(0)	0(0)	S1-259	0(0)	0(0)	0(0)	0(0)	0(0)
1-260	435656983	926946567	661476615	746280073	467783124491703559	710255107869725833	R1-260	0(0)	0(0)	0(0)	0(0)	0(0)	S1-260	0(0)	0(0)	0(0)	0(0)	0(0)
1-261	706852355	425668533	1028598877	570508735	758976937382064053	1104449634924840383	R1-261	0(0)	0(0)	0(0)	0(0)	0(0)	S1-261	0(0)	0(0)	0(0)	0(0)	0(0)
1-262	14657932	656239549	1067335985	594730251	15738835297987517	1146043287949466891	R1-262	0(0)	0(0)	0(0)	0(0)	0(0)	S1-262	0(0)	0(0)	0(0)	0(0)	0(0)
1-263	397110785	398049897	433313972	173488415	426394459014021737	465267334833453343	R1-263	0(0)	0(0)	0(0)	0(0)	0(0)	S1-263	0(0)	0(0)	0(0)	0(0)	0(0)
1-264	199786685	989179697	986052559	274364361	214519320551993137	1058765873534891977	R1-264	0(0)	0(0)	0(0)	0(0)	0(0)	S1-264	0(0)	0(0)	0(0)	0(0)	0(0)
1-265	777516614	497689142	549246818	70701555	834852107804353078	589749280256217587	R1-265	0(0)	0(0)	0(0)	0(0)	0(0)	S1-265	0(0)	0(0)	0(0)	0(0)	0(0)
1-266	297951172	510920400	431202547	1007428497	319922635397138128	463000210336654225	R1-266	0(0)	0(0)	0(0)	0(0)	0(0)	S1-266	0(1)	0(0)	0(0)	0(0)	0(0)
1-267	635012929	285793428	914138927	307669793	681839940933835924	981549199174052641	R1-267	0(0)	0(0)	0(0)	0(0)	0(0)	S1-267	0(0)	0(0)	0(0)	0(0)	0(0)
1-268	59102169	503634249	815650361	507805293	63460471248050505	875797906874203757	R1-268	0(0)	0(0)	0(0)	0(0)	0(0)	S1-268	0(0)	0(0)	0(0)	0(0)	0(0)
1-269	529695322	642826652	21586560	110259313	568756021851373980	23178392418544753	R1-269	0(0)	0(0)	0(0)	0(0)	0(0)	S1-269	0(0)	0(0)	0(0)	0(0)	0(0)
1-270	682232895	37097402	390265933	755802883	732541993107197882	419044855500284675	R1-270	0(0)	0(0)	0(0)	0(0)	0(0)	S1-270	0(0)	0(0)	0(0)	0(0)	0(0)
1-271	298421348	456169406	362528368	555562251	320427482978228158	389261871663625483	R1-271	0(0)	0(0)	0(0)	0(1)	0(0)	S1-271	0(0)	0(0)	0(0)	0(0)	0(0)
1-272	824238730	671151070	426103300	35259731	885019598032794590	457524934589678931	R1-272	0(0)	0(0)	0(0)	0(0)	0(0)	S1-272	0(0)	0(0)	0(0)	0(0)	0(0)
1-273	363321135	335907860	1025985142	144120497	390113098528558100	1101643157912099505	R1-273	0(0)	0(0)	0(0)	0(0)	0(0)	S1-273	0(0)	0(0)	0(0)	0(0)	0(0)
1-274	1062138470	484996729	606305415	178914809	1140462498603366009	651015482382091769	R1-274	0(0)	0(0)	0(0)	0(0)	0(0)	S1-274	0(0)	0(0)	0(0)	0(0)	0(0)

Table 14 Detailed Results for Seed Index 1-275 to 1-299, Cases R1-275 to R1-299 and S1-275 to S1-299

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15	
	611766009	265435165	125805882	700016417	656878750630295581	135083037908625185											
1-275	611766009	265435165	125805882	700016417	656878750630295581	135083037908625185	R1-275	0(0)	0(0)	0(0)	0(0)	0(0)	S1-275	0(0)	0(0)	0(0)	0(0)
1-276	408941193	600356750	734398159	614512137	439097263080912782	788554019401414153	R1-276	0(0)	0(0)	0(0)	0(0)	0(0)	S1-276	0(1)	0(0)	0(0)	0(0)
1-277	1073215164	191039012	280203350	972531091	1152356007928858148	300866057092441491	R1-277	0(0)	0(0)	0(0)	0(0)	0(0)	S1-277	0(0)	0(0)	0(1)	0(0)
1-278	93110656	204299444	469759860	328585047	99976805811575988	504400809246969687	R1-278	0(0)	0(0)	0(0)	0(0)	0(0)	S1-278	0(0)	0(0)	0(0)	0(0)
1-279	150538548	458701247	511071408	192681583	161639535570532799	548758746012849775	R1-279	0(0)	0(0)	0(0)	0(0)	0(0)	S1-279	0(0)	0(0)	0(0)	0(0)
1-280	1016783845	243410248	413872595	306697623	1091763340587443528	444392315365610903	R1-280	0(0)	0(0)	0(0)	0(0)	0(0)	S1-280	0(0)	0(0)	0(0)	0(0)
1-281	1012010793	293814428	69487209	8744813	1086638315077320860	74611322545074029	R1-281	0(0)	0(0)	0(0)	0(0)	0(0)	S1-281	0(0)	0(0)	0(0)	0(0)
1-282	528854503	108106309	1021772023	544364409	567853198789939781	1097119356232554361	R1-282	0(0)	0(0)	0(0)	0(0)	0(0)	S1-282	0(0)	0(0)	0(0)	0(0)
1-283	23503806	832045677	1062036313	888606653	25237020357427821	1140352808763461565	R1-283	0(0)	0(0)	0(0)	0(0)	0(0)	S1-283	0(0)	0(0)	0(0)	0(0)
1-284	1064833011	318307486	217135515	1005326587	1143355739804859550	233147484936605947	R1-284	0(0)	0(0)	0(0)	0(0)	0(0)	S1-284	0(0)	0(0)	0(0)	0(0)
1-285	682366615	478511492	892603979	867384089	732685574305317252	958426225388501785	R1-285	0(0)	0(0)	0(0)	0(0)	0(0)	S1-285	0(0)	0(0)	0(0)	0(0)
1-286	249437732	752453574	658930490	38638259	267831726084556742	707521226260452019	R1-286	0(0)	0(0)	0(0)	0(0)	0(0)	S1-286	0(0)	0(0)	0(0)	0(0)
1-287	529591662	584987586	203119740	671026959	568644717716059074	218098160789032719	R1-287	0(0)	0(0)	0(0)	0(0)	0(0)	S1-287	0(0)	0(0)	0(0)	0(0)
1-288	590391666	296539354	481659050	996073749	633928224621778138	517177467889180949	R1-288	0(0)	0(0)	0(0)	0(0)	0(0)	S1-288	0(0)	0(0)	0(0)	0(0)
1-289	910154132	232247591	1028897249	446053265	977270558047064359	1104770009295895441	R1-289	0(0)	0(0)	0(0)	0(0)	0(0)	S1-289	0(0)	0(0)	0(0)	0(0)
1-290	764029436	157520281	1052229121	77489215	820370360357851545	1129822415725945919	R1-290	0(0)	0(0)	0(2)	0(1)	0(0)	S1-290	0(0)	0(0)	0(0)	0(0)
1-291	468268899	57490877	289982073	490850247	50279990179222653	311365880481171399	R1-291	0(0)	0(0)	0(0)	0(0)	0(0)	S1-291	0(0)	0(0)	0(0)	0(0)
1-292	646204976	494691081	747319926	964398815	693857310102807305	802428661419183839	R1-292	0(0)	0(0)	0(0)	0(0)	0(0)	S1-292	0(0)	0(0)	0(0)	0(0)
1-293	481030357	72712405	671082427	143583065	516502412997263573	720569269364909913	R1-293	0(0)	0(0)	0(0)	0(0)	0(0)	S1-293	0(0)	0(0)	0(0)	0(1)
1-294	1044356854	724943038	524669605	886864647	1121369634045804734	563359699556924167	R1-294	0(0)	0(0)	0(0)	0(0)	0(0)	S1-294	0(0)	0(0)	0(0)	0(0)
1-295	648803072	432370904	913438052	1020062233	696646994378454232	980796641085549081	R1-295	0(0)	0(0)	0(0)	0(0)	0(0)	S1-295	0(0)	0(0)	0(0)	0(0)
1-296	341372148	977732055	874693468	988573053	366545553834050007	939194960759778685	R1-296	0(0)	0(0)	0(0)	0(0)	0(1)	S1-296	0(0)	0(0)	0(0)	0(0)
1-297	968066101	404906344	501309619	607906177	1039453061445214568	538277105301711233	R1-297	0(0)	0(1)	0(0)	0(0)	0(0)	S1-297	0(0)	0(0)	0(0)	0(0)
1-298	1044974192	572174160	504152208	53290103	1122032495523180368	541329311444837495	R1-298	0(0)	0(0)	0(1)	0(0)	0(0)	S1-298	0(0)	0(0)	0(0)	0(0)
1-299	992389118	708258739	546736250	254936967	1065569702387329971	587053578576856967	R1-299	0(0)	0(0)	0(0)	0(1)	0(0)	S1-299	0(0)	0(0)	0(0)	0(0)

Table 15 Detailed Results for Seed Index 1-300 to 1-324, Cases R1-300 to R1-324 and S1-300 to S1-324

Case Index	Seed				Seed				Seed				Seed				Case				Order																			
	s1	s2	s3	s4	t1=s1*2^30+s2	t2=s3*2^30+s4	R1-300	R1-301	R1-302	R1-303	R1-304	R1-305	R1-306	R1-307	R1-308	R1-309	R1-310	R1-311	R1-312	R1-313	R1-314	R1-315	R1-316	R1-317	R1-318	R1-319	R1-320	R1-321	R1-322	R1-323	R1-324	11	12	13	14	15	11	12	13	14
1-300	364865617	901051141	563027049	161052145	391771474013516549	604545690715649521	R1-300	0(0)	0(0)	0(0)	0(0)	0(0)	S1-300	0(0)	0(0)	0(0)	0(0)	0(0)	S1-301	0(0)	0(0)	0(0)	0(0)	0(0)	S1-302	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)					
1-301	797750344	147459176	452886306	955736165	856577909610646632	486282969224798309	R1-301	0(0)	0(1)	0(0)	0(0)	0(0)	S1-301	0(0)	0(0)	0(0)	0(0)	0(0)	S1-302	0(0)	0(0)	0(0)	0(0)	0(0)	S1-303	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-302	669132292	1061204362	701999168	722491507	718475328770584970	753765867817293939	R1-302	0(0)	0(0)	0(0)	0(0)	0(0)	S1-302	0(0)	0(0)	0(0)	0(0)	0(0)	S1-303	0(0)	0(0)	0(0)	0(0)	0(0)	S1-304	0(0)	0(0)	0(0)	0(0)	0(1)	0(0)	0(0)	0(0)	0(0)						
1-303	384654816	613534907	1026507424	298035237	413019964355759291	1102203954093336613	R1-303	0(0)	0(0)	0(0)	0(0)	0(0)	S1-303	0(0)	0(0)	0(0)	0(0)	0(0)	S1-304	0(0)	0(0)	0(0)	0(0)	0(0)	S1-305	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-304	152363055	24045622	476216815	876129601	163598584609957942	511333912433700161	R1-304	0(0)	0(0)	0(0)	0(0)	0(0)	S1-304	0(0)	0(0)	0(0)	0(0)	0(0)	S1-305	0(0)	0(0)	0(0)	0(0)	0(0)	S1-306	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-305	980901577	437609495	1025289723	828826847	1053235048890065943	1100896458131301599	R1-305	0(0)	0(0)	0(0)	0(0)	0(0)	S1-305	0(0)	0(0)	0(0)	0(0)	0(0)	S1-306	0(0)	0(0)	0(0)	0(0)	0(0)	S1-307	0(0)	0(0)	0(1)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-306	1039783438	345001140	718177557	463490161	1116458965628112052	771137280472534129	R1-306	0(0)	0(0)	0(0)	0(0)	0(0)	S1-306	0(0)	0(0)	0(0)	0(0)	0(0)	S1-307	0(0)	0(0)	0(0)	0(0)	0(0)	S1-308	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-307	767123221	990167635	1028811010	339508983	823692287539462739	1104677410768191223	R1-307	0(0)	0(1)	0(0)	0(0)	0(0)	S1-307	0(0)	0(0)	0(0)	0(0)	0(0)	S1-308	0(0)	0(0)	0(0)	0(0)	0(0)	S1-309	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-308	136221276	996742965	800695971	908569131	146266482356590389	859740753279560235	R1-308	0(0)	0(0)	0(0)	0(0)	0(0)	S1-308	0(0)	0(0)	0(0)	0(0)	0(0)	S1-309	0(0)	0(0)	0(1)	0(0)	0(0)	S1-310	0(1)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-309	675712466	54904120	192971337	997062331	725540735797282104	207201396367161019	R1-309	0(0)	0(0)	0(0)	0(1)	0(0)	S1-309	0(0)	0(0)	0(0)	0(0)	0(0)	S1-310	0(1)	0(0)	0(0)	0(0)	0(0)	S1-311	0(0)	0(1)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-310	1007729369	246705405	811954279	1066283993	1082041171015134461	871829269604348889	R1-310	0(0)	0(0)	0(0)	0(0)	0(0)	S1-310	0(1)	0(0)	0(0)	0(0)	0(0)	S1-311	0(0)	0(0)	0(0)	0(0)	0(0)	S1-312	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-311	131194991	1069278954	357277707	135166407	140869550005282538	383624016923883975	R1-311	0(0)	0(0)	0(0)	0(0)	0(0)	S1-311	0(0)	0(1)	0(0)	0(0)	0(0)	S1-312	0(0)	0(0)	0(0)	0(0)	0(0)	S1-313	0(1)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-312	919846940	196641439	790728808	220338707	987678131353059999	849038592811604499	R1-312	0(0)	0(0)	0(0)	0(0)	0(0)	S1-312	0(0)	0(0)	0(0)	0(0)	0(0)	S1-313	0(0)	0(0)	0(0)	0(0)	0(0)	S1-314	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-313	859061820	994119384	338293286	1032677621	922410606529679064	363239650989271285	R1-313	0(0)	0(0)	0(0)	0(0)	0(0)	S1-313	0(1)	0(0)	0(0)	0(0)	0(0)	S1-314	0(0)	0(0)	0(0)	0(0)	0(0)	S1-315	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-314	974450529	253602249	880741332	1042719757	1046308288659827145	945688805336589325	R1-314	0(0)	0(0)	0(0)	0(0)	0(0)	S1-314	0(0)	0(0)	0(0)	0(0)	0(0)	S1-315	0(0)	0(0)	0(0)	0(0)	0(0)	S1-316	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-315	232002629	221831157	111844771	301267273	249110926257086453	120092408719669577	R1-315	0(0)	0(0)	0(0)	0(0)	0(0)	S1-315	0(0)	0(0)	0(0)	0(0)	0(0)	S1-316	0(0)	0(0)	0(0)	0(0)	0(0)	S1-317	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-316	985359404	438282950	160722659	530268001	1058021604184795846	172574641563058017	R1-316	0(0)	0(0)	0(0)	0(0)	0(0)	S1-316	0(0)	0(0)	0(0)	0(0)	0(0)	S1-317	0(0)	0(0)	0(0)	0(0)	0(0)	S1-318	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-317	798623835	206299646	946816334	506912777	857515813489074686	1016636297969065993	R1-317	0(0)	0(0)	0(0)	0(0)	0(0)	S1-317	0(0)	0(0)	0(0)	0(0)	0(0)	S1-318	0(0)	0(0)	0(0)	0(0)	0(0)	S1-319	0(0)	0(0)	0(1)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-318	933117529	1040439838	325512033	695579181	1001927318635272734	349515884742947373	R1-318	0(0)	0(0)	0(0)	0(0)	0(0)	S1-318	0(0)	0(0)	0(0)	0(0)	0(0)	S1-319	0(0)	0(0)	0(0)	0(0)	0(0)	S1-320	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-319	396161833	732208606	537542257	346863639	425375529896811998	577181603855120407	R1-319	0(0)	0(0)	0(0)	0(0)	0(0)	S1-319	0(0)	0(0)	0(0)	0(0)	0(0)	S1-320	0(0)	0(0)	0(0)	0(0)	0(0)	S1-321	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-320	700500380	1046630335	983522856	269698305	752156556780523455	1056049625616827649	R1-320	0(0)	0(0)	0(0)	0(0)	0(0)	S1-320	0(0)	0(0)	0(0)	0(0)	0(0)	S1-321	0(0)	0(0)	0(0)	0(0)	0(0)	S1-322	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-321	346396547	546304756	278171942	625266447	371940460749386484	298684849013968655	R1-321	0(0)	0(0)	0(0)	0(0)	0(0)	S1-321	0(0)	0(0)	0(0)	0(0)	0(0)	S1-322	0(0)	0(0)	0(0)	0(0)	0(0)	S1-323	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-322	608575775	738303800	1047893690	450533641	653453263429017400	1125167282509224201	R1-322	0(0)	0(0)	0(0)	0(0)	0(0)	S1-322	0(0)	0(0)	0(0)	0(0)	0(0)	S1-323	0(0)	0(0)	0(0)	0(0)	0(0)	S1-324	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-323	531069586	632290058	547900857	210437587	570231626574854922	588304065776780755	R1-323	0(0)	0(0)	0(0)	0(0)	0(0)	S1-323	0(0)	0(0)	0(0)	0(0)	0(0)	S1-324	0(0)	0(0)	0(0)	0(0)	0(0)	S1-325	0(0)	0(0)	0(0)	0(1)	0(0)	0(0)	0(0)	0(0)	0(0)						
1-324	832327508	115557001	792797703	180226057	893704856720851593	851260051862456329	R1-324	0(0)	0(0)	0(0)	0(0)	0(0)	S1-324	0(0)	0(0)	0(0)	0(0)	0(0)	S1-325	0(0)	0(0)	0(0)	0(0)	0(0)	S1-326	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)						

Table 16 Detailed Results for Seed Index 1-325 to 1-349, Cases R1-325 to R1-349 and S1-325 to S1-349

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15
1-325	365463000	800826684	802021998	574213407	392412909025338684	861164563594857759	R1-325	0(0)	0(0)	0(0)	0(0)	S1-325	0(0)	0(0)	0(0)	0(0)
1-326	665145047	528581844	928935505	1008316333	714194056518927572	997436904525377453	R1-326	0(0)	0(0)	0(0)	0(0)	S1-326	0(0)	0(0)	0(0)	0(0)
1-327	673362871	237551895	620231190	455918249	723017877558968599	665968169708208809	R1-327	0(0)	0(0)	0(0)	0(0)	S1-327	0(0)	0(0)	0(0)	0(0)
1-328	613390153	828175976	20444109	457599887	658622662534035048	21951695345314703	R1-328	0(0)	0(0)	0(0)	0(0)	S1-328	0(1)	0(0)	0(0)	0(0)
1-329	585280822	560796073	1016474970	951640767	628440497927295401	1091431689289786047	R1-329	0(0)	0(0)	0(0)	0(0)	S1-329	0(0)	0(0)	0(0)	0(0)
1-330	170341894	64378605	1052447879	640931685	182903216031553261	1130057305903322981	R1-330	0(0)	0(0)	0(0)	0(0)	S1-330	0(0)	0(0)	0(0)	0(0)
1-331	366916446	738935163	149803142	795453833	393973534722572667	160849899727464841	R1-331	0(0)	0(0)	0(0)	0(0)	S1-331	0(0)	0(0)	0(0)	0(0)
1-332	523396383	931422007	509184428	682708179	561992587888844599	546732617155824851	R1-332	0(0)	0(0)	0(0)	0(0)	S1-332	0(0)	0(0)	0(0)	0(0)
1-333	555886405	453437278	664004402	870414615	596878482894939998	712969298617923863	R1-333	0(0)	0(0)	0(0)	0(0)	S1-333	0(0)	0(0)	0(0)	0(0)
1-334	217058159	36658633	576418835	567829573	233064423595400649	618925011848684613	R1-334	0(0)	0(0)	0(0)	0(0)	S1-334	0(0)	0(0)	0(0)	0(0)
1-335	957367747	489013358	451361057	784662971	1027965791391563886	484645245410410939	R1-335	0(0)	0(0)	0(0)	0(0)	S1-335	0(0)	0(0)	0(0)	0(0)
1-336	660105808	26277478	767727783	673536687	708783214341191270	824341430727432879	R1-336	0(0)	0(0)	0(0)	0(0)	S1-336	0(0)	0(0)	0(0)	0(0)
1-337	292349553	726654109	407514466	139886751	313907943010458781	437565326169112735	R1-337	0(0)	0(0)	0(1)	0(0)	S1-337	0(0)	0(0)	0(0)	0(0)
1-338	390950446	795477466	702536658	474725115	419779845777130970	754342993062509307	R1-338	0(0)	0(0)	0(0)	0(0)	S1-338	0(0)	0(0)	0(0)	0(0)
1-339	294791953	634425187	242179087	128975619	316530449949167459	260037814739010307	R1-339	0(0)	0(0)	0(0)	0(0)	S1-339	0(0)	0(0)	0(0)	0(0)
1-340	354788959	140828348	488955176	681697059	380951744112549564	525011623214178083	R1-340	0(0)	0(0)	0(0)	0(0)	S1-340	0(0)	0(0)	0(0)	0(0)
1-341	895547974	413022217	918429485	168877565	961587315495286793	986156150608158205	R1-341	0(0)	0(0)	0(0)	0(0)	S1-341	0(0)	0(0)	0(0)	0(0)
1-342	551108252	914150757	862600210	837019027	591747980638082405	926209923705202067	R1-342	0(0)	0(0)	0(0)	0(0)	S1-342	0(0)	0(0)	0(0)	0(1)
1-343	273547047	993771198	496680320	1054076769	293718906189364926	533306433795780449	R1-343	0(0)	0(0)	0(0)	0(0)	S1-343	0(0)	0(0)	0(0)	0(0)
1-344	205280880	771308158	1023005098	14156017	220418667294833278	1098443359901974769	R1-344	0(0)	0(0)	0(1)	0(0)	S1-344	0(0)	0(0)	0(0)	0(0)
1-345	922799168	202837606	1032942814	691677399	990848062036840038	1109113901883730135	R1-345	0(0)	0(0)	0(1)	0(0)	S1-345	0(0)	0(0)	0(0)	0(0)
1-346	1003589891	536287483	804661812	760879427	1077596440646588667	863999042480904515	R1-346	0(0)	0(0)	0(0)	0(0)	S1-346	0(0)	0(0)	0(0)	0(0)
1-347	309014977	434726430	463815240	745900681	331802305482024478	498017822542498441	R1-347	0(0)	0(0)	0(0)	0(0)	S1-347	0(0)	0(0)	0(0)	0(0)
1-348	523304258	156379096	346922173	562363711	561893668648265688	372504847385427263	R1-348	0(0)	0(0)	0(0)	0(0)	S1-348	0(0)	0(0)	0(0)	0(0)
1-349	208671005	449548445	777896788	655881267	224058785974161565	835260316686742579	R1-349	0(0)	0(0)	0(0)	0(0)	S1-349	0(0)	0(0)	0(0)	0(0)

Table 17 Detailed Results for Seed Index 1-350 to 1-374, Cases R1-350 to R1-374 and S1-350 to S1-374

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-350	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-350	Order 11	Order 12	Order 13	Order 14	Order 15
1-350	51955834	672667968	1065107391	648621717	55787152639269184	1143650353416842901	R1-350	0(0)	0(0)	0(0)	0(0)	0(0)	S1-350	0(1)	0(0)	0(0)	0(0)	0(0)
1-351	319007343	1007566397	544199814	1027848171	342531527349780029	584330101932668907	R1-351	0(0)	0(1)	0(0)	0(0)	0(0)	S1-351	0(0)	0(0)	0(0)	0(0)	0(1)
1-352	60986470	527003103	603325259	774664777	65483724064124383	647815564838597193	R1-352	0(0)	0(0)	0(0)	0(0)	0(0)	S1-352	0(0)	0(0)	0(0)	0(0)	0(0)
1-353	333722603	71150984	466577968	397229055	358331916526398856	500984278795762687	R1-353	0(0)	0(0)	0(0)	0(0)	0(0)	S1-353	0(0)	0(0)	0(0)	0(1)	0(0)
1-354	812355960	308324064	722832800	223155295	872260570535995104	776135809342182495	R1-354	0(1)	0(0)	0(0)	0(0)	0(0)	S1-354	0(0)	0(0)	0(0)	0(1)	0(0)
1-355	406013209	1028674827	799995687	756726335	435953364628428043	858988828908239423	R1-355	0(0)	0(0)	0(0)	0(0)	0(0)	S1-355	0(0)	0(0)	0(0)	0(0)	0(3)
1-356	672628660	650471258	477627338	325851945	722229524913547098	512848449422236457	R1-356	0(2)	0(0)	0(1)	0(0)	0(0)	S1-356	0(0)	0(0)	0(0)	0(0)	0(0)
1-357	112547344	354377849	275076253	108589713	120846790787293305	295360877743895185	R1-357	0(0)	0(0)	0(0)	0(0)	0(0)	S1-357	0(0)	0(0)	0(0)	0(0)	0(0)
1-358	887739426	8041313	158145172	35912575	953202950517994337	169807085475986303	R1-358	0(0)	0(0)	0(0)	0(0)	0(0)	S1-358	0(0)	0(1)	0(0)	0(1)	0(0)
1-359	829453664	289132483	900965761	578378665	890619090395975619	967404620156066729	R1-359	0(0)	0(0)	0(0)	0(0)	0(0)	S1-359	0(0)	0(0)	0(0)	0(0)	0(0)
1-360	736139440	30398256	1013762745	400251107	790423705054336816	1088519459319797987	R1-360	0(0)	0(0)	0(0)	0(0)	0(1)	S1-360	0(0)	0(0)	0(0)	0(0)	0(0)
1-361	671243386	714310457	13060323	344415703	720742098345886521	14023415384464855	R1-361	0(0)	0(0)	0(0)	0(0)	0(0)	S1-361	0(0)	0(0)	0(0)	0(0)	0(0)
1-362	764403677	648581999	486105183	721828857	820772199062868847	521951466572102649	R1-362	0(0)	0(0)	0(0)	0(0)	0(0)	S1-362	0(0)	0(0)	0(0)	0(0)	0(0)
1-363	361380729	591668430	667845062	522357289	388029603706578126	717093175543630377	R1-363	0(0)	0(1)	0(0)	0(0)	0(0)	S1-363	0(0)	0(0)	0(0)	0(0)	0(0)
1-364	666616523	550198703	719763125	68653051	715774041864756655	772839770754093051	R1-364	0(0)	0(0)	0(0)	0(0)	0(0)	S1-364	0(0)	0(0)	0(0)	0(0)	0(0)
1-365	968140009	103984897	967328702	858197011	1039532419255021313	1038661285751229459	R1-365	0(1)	0(0)	0(0)	0(0)	0(0)	S1-365	0(0)	0(0)	0(0)	0(0)	0(0)
1-366	67524531	930456320	207156853	938340913	72503914011140864	222432978132660785	R1-366	0(0)	0(1)	0(0)	0(0)	0(0)	S1-366	0(0)	0(0)	0(1)	0(0)	0(0)
1-367	842547083	75321325	864443114	221862013	904678041781620717	928188726192461949	R1-367	0(1)	0(0)	0(0)	0(0)	0(0)	S1-367	0(0)	0(0)	0(0)	0(0)	0(0)
1-368	206869627	72302799	317298574	582185425	222124570697482447	340696750181544401	R1-368	0(0)	0(0)	0(0)	0(0)	0(0)	S1-368	0(1)	0(0)	0(0)	0(0)	0(0)
1-369	455117650	32731614	221405801	142645399	488678855678325214	237732668752566423	R1-369	0(0)	0(0)	0(0)	0(0)	0(0)	S1-369	0(0)	0(0)	0(0)	0(0)	0(0)
1-370	469024961	1058804785	1055232581	275057327	503611718184473649	1133047356542225071	R1-370	0(0)	0(0)	0(0)	0(0)	0(0)	S1-370	0(0)	0(0)	0(0)	0(0)	0(0)
1-371	346459816	678754897	785287276	859961549	372008395453299281	843195792956192973	R1-371	0(0)	0(0)	0(0)	0(0)	0(0)	S1-371	0(0)	0(0)	0(0)	0(0)	0(0)
1-372	421340602	200311622	478927574	665093651	452411026717049670	514244567535748627	R1-372	0(0)	0(0)	0(0)	0(0)	0(0)	S1-372	0(0)	0(0)	0(0)	0(0)	0(0)
1-373	488231345	584253521	374875002	12721485	524234415498526801	402518968432205133	R1-373	0(0)	0(0)	0(0)	0(0)	0(0)	S1-373	0(0)	0(0)	0(1)	0(0)	0(0)
1-374	499697954	119988849	847011488	1061668991	536546592697016945	909471661135743103	R1-374	0(0)	0(1)	0(0)	0(0)	0(0)	S1-374	0(0)	0(0)	0(0)	0(0)	0(0)

Table 18 Detailed Results for Seed Index 1-375 to 1-399, Cases R1-375 to R1-399 and S1-375 to S1-379

Case	Seed	Seed	Seed	Seed	Seed	Seed	Case	Order	Order	Order	Order	Order	Case	Order	Order	Order	Order	
Index	s1	s2	s3	s4	t1=s1*2^30+s2	t2=s3*2^30+s4		11	12	13	14	15		11	12	13	14	15
1-375	13339367	220187052	361593828	974660331	14323036473772460	388258417398522603	R-1-375	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-375	0(0)	0(0)	0(0)	0(1)	0(0)
1-376	3213931	947350642	418577395	255532387	3450933081500786	44944055848000867	R-1-376	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-376	0(0)	0(0)	0(0)	0(0)	0(0)
1-377	637322172	578078702	793692073	389124811	684319472017000430	85220374546485963	R-1-377	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-377	0(0)	0(0)	0(0)	0(0)	0(0)
1-378	381278581	362029208	954777502	438882885	409394759377100952	1025184536950526533	R-1-378	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-378	0(0)	0(0)	0(0)	0(0)	0(0)
1-379	851810080	185542085	804312508	717961903	914624109186328005	863623980123896495	R-1-379	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-379	0(0)	0(0)	0(0)	0(0)	0(0)
1-380	336940533	8952512	867801880	218363577	361787142491904704	931795173720192697	R-1-380	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-380	0(0)	0(0)	0(0)	0(0)	0(0)
1-381	521193258	171195038	69165351	540756639	559626999672617630	74265730681096863	R-1-381	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-381	0(0)	0(0)	0(0)	0(0)	0(0)
1-382	586310385	449299037	398603291	172550373	629545982669341277	427997024903293157	R-1-382	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-382	0(0)	0(0)	0(0)	0(0)	0(0)
1-383	415026655	687577055	54356379	1055148795	445631478235895775	58364718588644091	R-1-383	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-383	0(0)	0(0)	0(1)	0(0)	0(0)
1-384	193571932	665651581	494508525	511313519	207846280006535549	530974486128363119	R-1-384	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-384	0(0)	0(1)	0(0)	0(0)	0(0)
1-385	1030570359	988308660	195115433	577202037	1106566498021303476	209503601497171829	R-1-385	0(0)	0(0)	0(0)	0(1)	0(0)	S-1-385	0(0)	0(0)	0(0)	0(0)	0(1)
1-386	559348306	960166308	728153484	916338779	600595671295916452	781848850978453595	R-1-386	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-386	0(0)	0(0)	0(0)	0(0)	0(0)
1-387	533474395	187828351	262432152	913728107	572813770132424831	281784378478453355	R-1-387	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-387	0(0)	0(0)	0(0)	0(0)	0(0)
1-388	692942265	291320157	825319173	255534751	744041091839111517	886179714454726303	R-1-388	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-388	0(0)	0(0)	0(0)	0(0)	0(0)
1-389	658625110	4541119	138058349	207399489	707193326948141759	148239023681088065	R-1-389	0(0)	0(0)	0(0)	0(0)	0(1)	S-1-389	0(0)	0(0)	0(0)	0(0)	0(0)
1-390	80636136	263486606	1065997189	683691787	86582392012438670	1144605766779424523	R-1-390	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-390	0(1)	0(0)	0(0)	0(0)	0(0)
1-391	101714714	570504981	521032779	439159685	109215343108503317	559454686926408581	R-1-391	0(0)	0(1)	0(0)	0(0)	0(0)	S-1-391	0(0)	0(0)	0(1)	0(0)	0(0)
1-392	592151888	989421516	687485647	309096463	635818249295585228	738182092892696591	R-1-392	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-392	0(0)	0(0)	0(0)	0(0)	0(0)
1-393	555379221	292278161	695912270	1049619763	596333898060517265	747230111183400243	R-1-393	0(0)	0(0)	0(0)	0(1)	0(0)	S-1-393	0(0)	0(0)	0(0)	0(0)	0(0)
1-394	855722362	502618256	811540046	392352503	918824890314086544	871384489633436407	R-1-394	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-394	0(0)	0(0)	0(0)	0(0)	0(0)
1-395	979150716	991539320	872154357	798237107	1051355076760285304	936468610892964275	R-1-395	0(1)	0(0)	0(0)	0(0)	0(0)	S-1-395	0(0)	0(0)	0(0)	0(0)	0(0)
1-396	262501108	406409212	84343502	362444859	281858418912350204	90563146042472507	R-1-396	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-396	0(0)	0(0)	0(0)	0(0)	0(0)
1-397	306077702	708651484	646706796	326169925	328648430739859932	694396135056405829	R-1-397	0(0)	0(0)	0(1)	0(0)	0(0)	S-1-397	0(0)	0(0)	0(0)	0(0)	0(0)
1-398	579260338	1007298356	405581750	763471793	621976052902274868	435490088789583793	R-1-398	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-398	0(0)	0(0)	0(0)	0(0)	0(0)
1-399	412982962	753967246	508226784	80324825	443437079652769934	545704354138138841	R-1-399	0(0)	0(0)	0(0)	0(0)	0(0)	S-1-399	0(0)	0(0)	0(0)	0(0)	0(0)

Table 19 Detailed Results for Seed Index 1-400 to 1-424, Cases R1-400 to R1-424 and S1-400 to S1-424

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15
1-400	804173855	399372959	784317417	596562359	863475102280184479	842154414521110967	R1-400	0(0)	0(0)	0(0)	0(0)	S1-400	0(0)	0(0)	0(0)	0(0)
1-401	644379868	632390027	890325533	115976761	691897615447589259	955979761873168953	R1-401	0(0)	0(0)	0(0)	0(0)	S1-401	0(0)	0(0)	0(0)	0(0)
1-402	72618401	1053936539	59159771	514730239	77973415399639963	63522320935692543	R1-402	0(0)	0(0)	0(0)	0(0)	S1-402	0(0)	0(0)	0(0)	0(0)
1-403	485796733	221368196	487237813	638927217	521620270406029188	523167618691318129	R1-403	0(0)	0(0)	0(0)	0(1)	S1-403	0(0)	0(0)	0(0)	0(0)
1-404	30041271	154484757	331250869	646191651	32256569273303061	355677912927836707	R1-404	0(0)	0(0)	0(0)	0(0)	S1-404	0(0)	0(0)	0(0)	0(1)
1-405	556598552	824152718	183497922	939789337	597643145284391566	197029394408279065	R1-405	0(0)	0(0)	0(0)	0(1)	S1-405	0(0)	0(0)	0(0)	0(0)
1-406	187544595	98779629	766921327	691933489	201374475615420909	823475505209413937	R1-406	0(0)	0(0)	0(0)	0(0)	S1-406	0(0)	0(0)	0(0)	0(0)
1-407	109831575	1041118406	248513692	360089803	117930756714411206	266839545297144011	R1-407	0(0)	0(0)	0(0)	0(0)	S1-407	0(0)	0(0)	0(0)	0(0)
1-408	981829418	536104943	59436677	322296763	1054231310676283375	63819646296775611	R1-408	0(0)	0(0)	0(0)	0(0)	S1-408	0(0)	0(0)	0(0)	0(0)
1-409	117267067	1047868723	75744786	163385199	125914555463578931	81330344841514863	R1-409	0(0)	0(0)	0(0)	0(0)	S1-409	0(0)	0(0)	0(0)	0(0)
1-410	612097933	573161682	907331554	425796175	657235151619211474	974239838190510671	R1-410	0(0)	0(0)	0(0)	0(0)	S1-410	0(0)	0(0)	0(0)	0(0)
1-411	111368490	937313205	298599657	399691233	119581006526038965	320618940752645601	R1-411	0(0)	0(0)	0(0)	0(0)	S1-411	0(0)	0(0)	0(0)	0(0)
1-412	282598611	280488715	666749647	398559845	303437948315495179	715916982519695973	R1-412	0(0)	0(0)	0(0)	0(0)	S1-412	0(0)	0(0)	0(0)	0(0)
1-413	640990503	949961234	895884222	686396699	688258312807858706	961948359309497627	R1-413	0(0)	0(0)	0(0)	0(0)	S1-413	0(0)	0(0)	0(0)	0(1)
1-414	1042535832	201044309	813847916	327818309	1119414326038081877	873862546112257093	R1-414	0(0)	0(0)	0(0)	0(0)	S1-414	0(0)	0(1)	0(0)	0(0)
1-415	337024140	481284008	429684933	1032601397	361876915296915368	461370684737339189	R1-415	0(0)	0(0)	0(0)	0(0)	S1-415	0(0)	0(0)	0(0)	0(0)
1-416	139711580	879472755	307016521	764405245	150014167622594675	329656480021079549	R1-416	0(0)	0(0)	0(0)	0(1)	S1-416	0(0)	0(0)	0(0)	0(0)
1-417	585759287	736833966	340639692	528817429	628954245985153454	365759084743695637	R1-417	0(0)	0(0)	0(0)	0(0)	S1-417	0(0)	0(0)	0(0)	0(0)
1-418	1051627094	1061655766	859724339	718294295	1129175995141035222	923121980613348631	R1-418	0(0)	0(1)	0(0)	0(0)	S1-418	0(0)	0(0)	0(0)	0(0)
1-419	1030463492	864048893	351012994	932961573	1106451750329538301	376897333358222629	R1-419	0(0)	0(0)	0(0)	0(0)	S1-419	0(0)	0(0)	0(0)	0(0)
1-420	538688614	575352117	432604792	542834843	578412495539744053	464505858976055451	R1-420	0(0)	0(0)	0(0)	0(0)	S1-420	0(0)	0(0)	0(0)	0(0)
1-421	908440285	700785815	182256033	471694771	975430329311765655	195695925780118963	R1-421	0(0)	0(0)	0(0)	0(0)	S1-421	0(0)	0(0)	0(0)	0(0)
1-422	904678122	103702835	557066581	284853747	971390736952877363	598145687057237491	R1-422	0(0)	0(0)	0(0)	0(0)	S1-422	0(0)	0(0)	0(0)	0(0)
1-423	971136589	695260882	31410306	229941777	1042749973121259218	33726559486779921	R1-423	0(0)	0(1)	0(0)	0(1)	S1-423	0(0)	0(0)	0(0)	0(0)
1-424	149742596	273715131	549719979	106951113	160784888433250235	590257333047652809	R1-424	0(0)	0(0)	0(0)	0(0)	S1-424	0(0)	0(0)	0(0)	0(1)

Table 20 Detailed Results for Seed Index 1-425 to 1-449, Cases R1-425 to R1-449 and S1-425 to S1-499

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-425	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-425	Order 11	Order 12	Order 13	Order 14	Order 15
1-425	12605613	558411826	397945019	1.057E+09	13535174453669938	427290211610121593	R1-425	0(0)	0(0)	0(0)	0(0)	0(0)	S1-425	0(0)	0(0)	0(0)	0(0)	0(0)
1-426	961177295	672623488	464210625	194411891	1032056262593309568	498442363402091891	R1-426	0(0)	0(0)	0(0)	0(0)	0(0)	S1-426	0(0)	0(0)	0(0)	0(0)	0(0)
1-427	635690914	518571625	38900932	696588623	682567922017158761	41769558377568591	R1-427	0(0)	0(0)	0(1)	0(0)	0(0)	S1-427	0(0)	0(0)	0(0)	0(0)	0(1)
1-428	954394095	224132759	777850276	992083289	1024772856604262039	835210375143226713	R1-428	0(0)	0(0)	0(0)	0(0)	0(0)	S1-428	0(0)	0(0)	0(0)	0(0)	0(0)
1-429	172905142	86965487	501709388	294272485	185655482637024495	538706353683316197	R1-429	0(0)	0(0)	0(0)	0(0)	0(0)	S1-429	0(0)	0(0)	0(0)	0(0)	0(0)
1-430	95707221	918585679	190196422	457200859	102764846965096783	204221853533754587	R1-430	0(0)	0(1)	0(0)	0(0)	0(1)	S1-430	0(0)	0(0)	0(0)	0(0)	0(0)
1-431	790086021	680803413	552512133	542494111	848348405986245717	593255386012044703	R1-431	0(0)	0(0)	0(0)	0(0)	0(0)	S1-431	0(0)	0(0)	0(1)	0(0)	0(0)
1-432	784109712	1.068E+09	1.05E+09	95547343	841931393447198695	1127728498928119759	R1-432	0(0)	0(1)	0(0)	0(0)	0(0)	S1-432	0(0)	0(0)	0(0)	0(0)	0(0)
1-433	55936235	962868628	1.035E+09	188733719	60061075959461268	1111591261065697559	R1-433	0(0)	0(0)	0(1)	0(0)	0(0)	S1-433	0(0)	0(0)	0(0)	0(0)	0(0)
1-434	740336078	357326532	488722779	812101929	794929811122052804	524762088965910825	R1-434	0(0)	0(0)	0(0)	0(0)	0(0)	S1-434	0(0)	0(0)	0(0)	0(0)	0(0)
1-435	213612891	170828431	1.068E+09	657337953	229365095383081615	1147220347421863521	R1-435	0(0)	0(0)	0(1)	0(0)	0(0)	S1-435	0(0)	0(0)	0(0)	0(0)	0(0)
1-436	5963974	1.067E+09	1.044E+09	782021243	6403769387736588	1121400279768281723	R1-436	0(0)	0(0)	0(0)	0(0)	0(0)	S1-436	0(0)	0(0)	0(0)	0(0)	0(0)
1-437	137962211	895140567	448637199	235325935	148135796977353431	481720524603836911	R1-437	0(0)	0(0)	0(0)	0(0)	0(0)	S1-437	0(0)	0(0)	0(0)	0(0)	0(0)
1-438	865111382	941953963	1.073E+09	690931393	928906274213794731	1151683311323498177	R1-438	0(0)	0(0)	0(0)	0(0)	0(0)	S1-438	0(0)	0(0)	0(0)	0(0)	0(0)
1-439	398900497	835820973	689622566	458746771	428316148079107501	740476592347147155	R1-439	0(0)	0(0)	0(0)	0(0)	0(0)	S1-439	0(0)	0(0)	0(0)	0(0)	0(0)
1-440	780959897	106133121	58516924	889306771	838549304381765249	62832069599936147	R1-440	0(0)	0(0)	0(0)	0(0)	0(0)	S1-440	0(0)	0(0)	0(0)	0(0)	0(0)
1-441	611804769	162098633	1.028E+09	1.008E+09	656920368760057289	1103748139427697987	R1-441	0(0)	0(0)	0(0)	0(0)	0(0)	S1-441	0(0)	0(0)	0(0)	0(0)	0(0)
1-442	708406583	810554648	844771052	852778379	760645777374582040	907066011089657227	R1-442	0(0)	0(0)	0(0)	0(0)	0(0)	S1-442	0(0)	0(0)	0(0)	0(0)	0(0)
1-443	219932951	185719455	242716551	613388633	236151208150162079	260614912799117657	R1-443	0(0)	0(0)	0(0)	0(0)	0(0)	S1-443	0(0)	0(0)	0(1)	0(0)	0(0)
1-444	295787480	731074031	444238782	795160865	317599389022637551	476997760871379233	R1-444	0(0)	0(0)	0(0)	0(0)	0(0)	S1-444	0(0)	0(0)	0(0)	0(0)	0(0)
1-445	985351012	744117083	483031881	905273343	1058012593649242971	518651533860364287	R1-445	0(0)	0(0)	0(1)	0(0)	0(0)	S1-445	0(0)	0(0)	0(0)	0(0)	0(0)
1-446	332846919	476603448	898078090	201436279	357391658396443704	964304006652472439	R1-446	0(0)	0(0)	0(0)	0(0)	0(0)	S1-446	0(0)	0(0)	0(0)	0(0)	0(0)
1-447	496610203	440992428	916715287	193975063	533231145627222700	984315544546038551	R1-447	0(0)	0(0)	0(0)	0(0)	0(0)	S1-447	0(0)	0(0)	0(0)	0(0)	0(0)
1-448	303758206	192211561	167691282	641838933	326157890357619305	180057143645417301	R1-448	0(0)	0(0)	0(0)	0(0)	0(0)	S1-448	0(0)	0(0)	0(0)	0(0)	0(0)
1-449	298220943	879735124	158935004	413233767	320212300171555156	170655161505641063	R1-449	0(0)	0(0)	0(0)	0(0)	0(0)	S1-449	0(0)	0(0)	0(0)	0(0)	0(0)

Table 21 Detailed Results for Seed Index 1-450 to 1-474, Cases R1-450 to R1-474 and S1-450 to S1-474

Case Index	Seed				Seed				Seed				Case				Order			
	s1	s2	s3	s4	t1=s1*2^30+s2	t2=s3*2^30+s4	11	12	13	14	15	S1-450	11	12	13	14	15			
1-450	411776096	386298719	938196681	291663779	442141216784937823	1007381015819349923	R1-450	0(0)	0(0)	0(0)	0(0)	0(0)	S1-450	0(1)	0(1)	0(0)	0(0)	0(0)		
1-451	442255559	495342035	1017408848	154863051	474868291090141651	1092434432360121803	R1-451	0(0)	0(0)	0(0)	0(0)	0(0)	S1-451	0(0)	0(0)	0(0)	0(0)	0(0)		
1-452	665837931	685684109	166438888	529672783	714938035206010253	178712395715324495	R1-452	0(0)	0(0)	0(0)	0(0)	0(1)	S1-452	0(1)	0(0)	0(0)	0(0)	0(0)		
1-453	271169717	870894839	32234945	928384299	291166267416038647	34612009569223979	R1-453	0(1)	0(0)	0(0)	0(0)	0(0)	S1-453	0(0)	0(0)	0(0)	0(0)	0(0)		
1-454	71801054	652659044	136485280	34720223	77095795339741540	146549953531070943	R1-454	0(0)	0(0)	0(0)	0(1)	0(0)	S1-454	0(0)	0(0)	0(0)	0(0)	0(0)		
1-455	1071489548	961381501	606311524	825176663	1150503142627837053	651022042517156439	R1-455	0(0)	0(0)	0(0)	0(1)	0(1)	S1-455	0(0)	0(0)	0(0)	0(0)	0(0)		
1-456	66850930	428120398	945292427	1035719219	71780639942416718	1015000015816086067	R1-456	0(0)	0(0)	0(0)	0(0)	0(0)	S1-456	0(0)	0(0)	0(0)	0(0)	0(0)		
1-457	916395499	993661605	742523331	258969095	983972175595311781	797278356049464839	R1-457	0(1)	0(0)	0(0)	0(0)	0(0)	S1-457	0(0)	0(0)	0(1)	0(0)	0(0)		
1-458	247243132	988692975	872053987	300242891	265475292513845743	936360838928095179	R1-458	0(0)	0(0)	0(0)	0(0)	0(0)	S1-458	0(0)	0(0)	0(0)	0(0)	0(0)		
1-459	1000585071	18133939	814357547	305977491	1074370039220843443	874409758209923219	R1-459	0(0)	0(0)	0(0)	0(0)	0(0)	S1-459	0(0)	0(0)	0(0)	0(1)	0(0)		
1-460	513107837	23202495	370335203	787133121	550945344832277183	397644397147763393	R1-460	0(0)	0(0)	0(0)	0(0)	0(0)	S1-460	0(0)	0(0)	0(0)	0(0)	0(0)		
1-461	359879288	1070245741	648436919	305899657	386417444187187053	696253840461899913	R1-461	0(0)	0(0)	0(0)	0(0)	0(0)	S1-461	0(0)	0(0)	0(0)	0(0)	0(0)		
1-462	735893953	598543549	719676182	964207217	790160115963333821	772746417314243185	R1-462	0(0)	0(0)	0(0)	0(0)	0(0)	S1-462	0(0)	0(0)	0(0)	0(0)	0(0)		
1-463	749433450	150608547	212552013	70118305	804698039720221347	228225986203610017	R1-463	0(0)	0(0)	0(0)	0(0)	0(0)	S1-463	0(0)	0(0)	0(1)	0(0)	0(0)		
1-464	560595878	734108742	76879061	902424349	601935241304710214	82548264087971613	R1-464	0(0)	0(0)	0(0)	0(0)	0(0)	S1-464	0(0)	0(0)	0(0)	0(0)	0(0)		
1-465	592287772	1047104778	1029394044	427961131	635964153687280906	1105303438847257387	R1-465	0(0)	0(0)	0(0)	0(0)	0(0)	S1-465	0(0)	0(0)	0(0)	0(0)	0(0)		
1-466	75754426	951454648	547303844	229512783	81340696500767672	587663027968284239	R1-466	0(0)	0(0)	0(0)	0(0)	0(0)	S1-466	0(0)	0(0)	0(0)	0(0)	0(0)		
1-467	315808109	598813023	373302799	496505959	339096375590463839	400830828799071335	R1-467	0(0)	0(0)	0(0)	0(0)	0(0)	S1-467	0(1)	0(0)	0(0)	0(0)	0(0)		
1-468	25372175	777195086	273762990	90374231	27243166240542286	293950772316667991	R1-468	0(0)	0(0)	0(0)	0(0)	0(1)	S1-468	0(0)	0(0)	0(0)	0(0)	0(0)		
1-469	749021641	672854276	34599652	145539139	804255863695667460	37151093593784387	R1-469	0(0)	0(0)	0(0)	0(0)	0(0)	S1-469	0(0)	0(0)	0(0)	0(0)	0(0)		
1-470	148169870	327405013	405548383	517308939	159096186803047893	435454260999979531	R1-470	0(0)	0(0)	0(0)	0(0)	0(0)	S1-470	0(0)	0(0)	0(1)	0(0)	0(0)		
1-471	149593724	211838942	854560877	119188929	160625038278551518	917577754908208577	R1-471	0(0)	0(0)	0(0)	0(0)	0(0)	S1-471	0(0)	0(0)	0(0)	0(0)	0(0)		
1-472	173534652	54203299	667739215	785308675	186331413819888547	716979523455736835	R1-472	0(0)	0(0)	0(0)	0(0)	0(0)	S1-472	0(0)	0(0)	0(0)	0(0)	0(0)		
1-473	694027477	928707757	478793344	1016378007	74520632998805805	514100439521997463	R1-473	0(0)	0(0)	0(0)	0(0)	0(0)	S1-473	0(0)	0(0)	0(0)	0(0)	0(1)		
1-474	962081291	176592374	422125494	936231691	1033026920411207158	453253798820692747	R1-474	0(0)	0(0)	0(0)	0(0)	0(0)	S1-474	0(0)	0(0)	0(0)	0(0)	0(0)		

Table 22 Detailed Results for Seed Index 1-475 to 1-499, Cases R1-475 to R1-499 and S1-475 to S1-499

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15	
1-475	334374178	909597633	1044015710	62679021	359031540693818305	1121003332802734061	R1-475	0(0)	0(0)	0(0)	0(0)	S1-475	0(0)	0(0)	0(0)	0(1)	0(0)
1-476	209085274	966180018	465704590	42705749	224503604442479794	500046495954477909	R1-476	0(0)	0(0)	0(0)	0(0)	S1-476	0(0)	0(0)	0(0)	0(0)	0(0)
1-477	196365928	65528510	63923842	121878417	210846309767701182	68637702828046225	R1-477	0(0)	0(0)	0(0)	0(0)	S1-477	0(0)	0(0)	0(0)	0(0)	0(0)
1-478	36115195	663170649	322344290	857459389	38778396016586329	346114546758044349	R1-478	0(0)	0(0)	0(0)	0(0)	S1-478	0(0)	0(0)	0(0)	0(1)	0(0)
1-479	574700177	269238100	152711455	139066847	617079616574340948	163972676376460767	R1-479	0(1)	0(0)	0(0)	0(0)	S1-479	0(0)	0(0)	0(0)	0(0)	0(0)
1-480	847415088	470217954	624310299	629672107	909905022744458466	670348079819917483	R1-480	0(0)	0(0)	0(0)	0(0)	S1-480	0(0)	0(0)	0(0)	0(0)	0(0)
1-481	130802739	755638615	440805987	841194519	140448372313694551	473311825352694807	R1-481	0(0)	0(0)	0(0)	0(0)	S1-481	0(0)	0(0)	0(0)	0(0)	0(0)
1-482	499934025	1069659711	276528203	392785965	536800072952821311	296919897469448237	R1-482	0(0)	0(0)	0(0)	0(0)	S1-482	0(0)	0(0)	0(0)	0(0)	0(0)
1-483	426877813	180981626	576976071	530699713	458356561736732538	619523339410593217	R1-483	0(0)	0(0)	0(0)	0(0)	S1-483	0(0)	0(0)	0(0)	0(0)	0(0)
1-484	316199237	581435557	105237703	999292707	339516346065223845	112998124172082979	R1-484	0(1)	0(0)	0(0)	0(0)	S1-484	0(0)	0(0)	0(0)	0(0)	0(0)
1-485	671759655	368965445	308511124	500801557	721296437618276165	331261297508851733	R1-485	0(0)	0(0)	0(0)	0(0)	S1-485	0(0)	0(0)	0(0)	0(0)	0(0)
1-486	315167627	109493719	888522442	66693793	338408662790225367	954043707604708001	R1-486	0(0)	0(0)	0(0)	0(0)	S1-486	0(0)	0(0)	0(0)	0(0)	0(0)
1-487	1003059609	161105714	813350615	46067351	1077027054309492530	873328572947689111	R1-487	0(0)	0(0)	0(0)	0(0)	S1-487	0(0)	0(0)	0(1)	0(0)	0(0)
1-488	1024559668	121213223	723236097	289041883	1100112566836367655	776568846264462811	R1-488	0(0)	0(0)	0(0)	0(0)	S1-488	0(0)	0(0)	0(0)	0(0)	0(0)
1-489	692253956	655835587	603388814	727458815	743302026042491331	647883806453015551	R1-489	0(0)	0(1)	0(0)	0(0)	S1-489	0(0)	0(0)	0(0)	0(0)	0(0)
1-490	581872735	1006978344	1027420813	574378327	624781092821746984	1103184698340561239	R1-490	0(0)	0(0)	0(0)	0(0)	S1-490	0(0)	0(0)	0(1)	0(0)	0(0)
1-491	886760352	1063703326	549637833	573919731	952151678871065374	590169129918747123	R1-491	0(0)	0(0)	0(0)	0(0)	S1-491	0(0)	0(0)	0(0)	0(0)	0(0)
1-492	1049943410	94964202	516028502	175448181	1127368152245144042	554081385148915829	R1-492	0(0)	0(0)	0(0)	0(0)	S1-492	0(0)	0(0)	0(0)	0(0)	0(0)
1-493	323454640	614730852	478807187	290563605	347306775749594212	514115302604252693	R1-493	0(0)	0(0)	0(0)	0(0)	S1-493	0(0)	0(0)	0(0)	0(0)	0(0)
1-494	828760148	77625558	778915156	636559957	889874433049655510	836353780981244501	R1-494	0(0)	0(1)	0(0)	0(0)	S1-494	0(0)	0(0)	0(0)	0(0)	0(0)
1-495	903167535	728536727	745991062	561859365	969768757137020567	801001804161436453	R1-495	0(0)	0(0)	0(0)	0(0)	S1-495	0(0)	0(0)	0(0)	0(0)	0(0)
1-496	926000131	400779383	943325197	404962533	994285070084958327	1012887718056901861	R1-496	0(0)	0(0)	0(0)	0(0)	S1-496	0(0)	0(0)	0(1)	0(0)	0(0)
1-497	45617125	654265426	221116368	149577167	48981015657401426	237421892442152399	R1-497	0(0)	0(0)	0(0)	0(0)	S1-497	0(0)	0(0)	0(0)	0(0)	0(0)
1-498	505097096	448058615	1064359018	292669547	542343877604201719	1142846793670838379	R1-498	0(0)	0(0)	0(0)	0(1)	S1-498	0(0)	0(0)	0(0)	0(0)	0(0)
1-499	388670707	836850805	872896307	2290153	417331994706400373	93726527284334121	R1-499	0(1)	0(0)	0(0)	0(0)	S1-499	0(0)	0(0)	0(1)	0(0)	0(0)

Table 23 Detailed Results for Seed Index 1-500 to 1-524, Cases R1-500 to R1-524 and S1-500 to S1-524

Case Index	Seed				Seed				Seed				Case				Order				Case				Order									
	s1	s2	s3	s4	t1=s1*2^30+s2	t2=s3*2^30+s4	11	12	13	14	15	S1-500	O(0)	O(0)	O(0)	O(0)	O(0)	S1-501	O(0)	O(0)	O(0)	O(0)	O(0)	S1-502	O(0)	O(0)	O(0)	O(0)	O(0)	S1-503	O(0)	O(0)	O(0)	
1-500	858090288	1003679272	499529909	196470681	921367431997484584	536366155828684697	R1-500	0(0)	0(0)	0(0)	0(0)	0(0)	S1-500	0(0)	0(0)	0(0)	0(0)	0(0)	S1-501	0(0)	0(0)	0(0)	0(0)	0(0)	S1-502	0(0)	0(0)	0(0)	0(0)	0(0)	S1-503	0(0)	0(0)	0(0)
1-501	1038272840	86178528	997795183	1063441337	1114836973117438688	1071374420836275129	R1-501	0(0)	0(0)	0(0)	0(0)	0(0)	S1-501	0(0)	0(0)	0(0)	0(0)	0(0)	S1-502	0(0)	0(0)	0(0)	0(0)	0(0)	S1-503	0(0)	0(0)	0(0)	0(0)	0(0)	S1-504	0(0)	0(0)	0(0)
1-502	1001260133	282033439	770644925	16205485	1075094881787936031	827473687442048685	R1-502	0(0)	0(0)	0(0)	0(0)	0(0)	S1-502	0(0)	0(0)	0(0)	0(0)	0(0)	S1-503	0(0)	0(0)	0(0)	0(0)	0(0)	S1-504	0(0)	0(0)	0(0)	0(0)	0(0)	S1-505	0(0)	0(0)	0(0)
1-503	646208605	883752504	858046895	1057626417	693861207100948024	921320839172462897	R1-503	0(0)	0(0)	0(0)	0(0)	0(0)	S1-503	0(0)	0(0)	0(0)	0(0)	0(0)	S1-504	0(0)	0(0)	0(0)	0(0)	0(0)	S1-505	0(0)	0(0)	0(0)	0(0)	0(0)	S1-506	0(0)	0(0)	0(0)
1-504	892792749	31657215	584130231	680380869	958628914796891391	627205060367862213	R1-504	0(0)	0(0)	0(0)	0(0)	0(1)	S1-504	0(0)	0(0)	0(0)	0(0)	0(0)	S1-505	0(0)	0(0)	0(0)	0(0)	0(0)	S1-506	0(0)	0(0)	0(0)	0(0)	0(0)	S1-507	0(0)	0(0)	0(0)
1-505	579751262	99209995	974270139	746271771	622503177625391883	1046114596864865307	R1-505	0(0)	0(0)	0(0)	0(0)	0(0)	S1-505	0(0)	0(0)	0(0)	0(0)	0(0)	S1-506	0(0)	0(0)	0(0)	0(0)	0(0)	S1-507	0(0)	0(0)	0(0)	0(0)	0(0)	S1-508	0(0)	0(0)	0(0)
1-506	469535893	778230221	300724909	689045969	504160326961519053	322900913000939985	R1-506	0(0)	0(0)	0(0)	0(1)	0(1)	S1-506	0(0)	0(0)	0(0)	0(0)	0(0)	S1-507	0(0)	0(0)	0(0)	0(0)	0(0)	S1-508	0(0)	0(0)	0(0)	0(0)	0(0)	S1-509	0(0)	0(0)	0(0)
1-507	831711814	940620254	500247177	717785355	893043761147328990	537136317000616203	R1-507	0(0)	0(0)	0(0)	0(0)	0(0)	S1-507	0(0)	0(0)	0(0)	0(0)	0(0)	S1-508	0(0)	0(0)	0(0)	0(0)	0(0)	S1-509	0(0)	0(0)	0(0)	0(0)	0(0)	S1-510	0(0)	0(0)	0(0)
1-508	846776980	340451388	874325604	182794389	909219859366862908	938799968991656085	R1-508	0(0)	0(0)	0(0)	0(0)	0(0)	S1-508	0(0)	0(0)	0(0)	0(0)	0(0)	S1-509	0(0)	0(0)	0(0)	0(0)	0(0)	S1-510	0(0)	0(0)	0(0)	0(0)	0(0)	S1-511	0(0)	0(0)	0(0)
1-509	101748679	674539494	239389730	968156667	109251812853589990	257042766305224187	R1-509	0(0)	0(0)	0(0)	0(0)	0(0)	S1-509	0(0)	0(0)	0(0)	0(0)	0(0)	S1-510	0(0)	0(0)	0(0)	0(0)	0(0)	S1-511	0(0)	0(0)	0(0)	0(0)	0(0)	S1-512	0(0)	0(1)	0(0)
1-510	278457946	310763107	266251678	724228797	298991943156096611	285885563103009469	R1-510	0(0)	0(0)	0(0)	0(1)	0(0)	S1-510	0(0)	0(0)	0(0)	0(0)	0(0)	S1-511	0(0)	0(0)	0(1)	0(0)	0(0)	S1-512	0(0)	0(0)	0(0)	0(0)	0(0)	S1-513	0(0)	0(0)	0(0)
1-511	225143616	252271468	7111281	743186501	241746117158067052	7635680575103045	R1-511	0(0)	0(0)	0(0)	0(0)	0(0)	S1-511	0(0)	0(0)	0(0)	0(0)	0(0)	S1-512	0(0)	0(0)	0(1)	0(0)	0(0)	S1-513	0(0)	0(0)	0(0)	0(0)	0(0)	S1-514	0(0)	0(0)	0(0)
1-512	923098039	258280887	61126780	1024503997	991168972384964023	65634381276950717	R1-512	0(0)	0(0)	0(0)	0(0)	0(0)	S1-512	0(0)	0(0)	0(0)	0(0)	0(0)	S1-513	0(0)	0(0)	0(1)	0(0)	0(0)	S1-514	0(0)	0(0)	0(0)	0(0)	0(0)	S1-515	0(0)	0(0)	0(0)
1-513	676268718	389905122	1057605754	140101239	726138007169366754	1135595531512956535	R1-513	0(0)	0(0)	0(0)	0(0)	0(0)	S1-513	0(0)	0(0)	0(0)	0(0)	0(0)	S1-514	0(0)	0(0)	0(0)	0(0)	0(0)	S1-515	0(0)	0(0)	0(0)	0(0)	0(0)	S1-516	0(0)	0(0)	0(0)
1-514	607290286	450147877	334612298	446412035	652072979837269541	359287219633763587	R1-514	0(0)	0(0)	0(0)	0(0)	0(0)	S1-514	0(0)	0(0)	0(0)	0(0)	0(0)	S1-515	0(0)	0(0)	0(0)	0(0)	0(0)	S1-516	0(0)	0(0)	0(0)	0(0)	0(0)	S1-517	0(0)	0(0)	0(0)
1-515	176758973	1026838847	820857013	951793721	189793503104225599	881388507333605433	R1-515	0(0)	0(0)	0(0)	0(0)	0(0)	S1-515	0(0)	0(0)	0(0)	0(0)	0(0)	S1-516	0(0)	0(0)	0(0)	0(0)	0(0)	S1-517	0(0)	0(0)	0(0)	0(0)	0(0)	S1-518	0(0)	0(0)	0(0)
1-516	216237186	608422920	556093772	912532111	232182911120690184	597101141974852239	R1-516	0(0)	0(0)	0(0)	0(1)	0(0)	S1-516	0(0)	0(0)	0(0)	0(0)	0(0)	S1-517	0(0)	0(0)	0(0)	0(0)	0(0)	S1-518	0(0)	0(0)	0(0)	0(0)	0(0)	S1-519	0(0)	0(0)	0(0)
1-517	178418840	1053012338	1047814816	73213101	191575771750576498	1125082591819277485	R1-517	0(0)	0(0)	0(0)	0(0)	0(0)	S1-517	0(0)	0(0)	0(0)	0(0)	0(0)	S1-518	0(0)	0(0)	0(0)	0(0)	0(0)	S1-519	0(0)	0(0)	0(0)	0(0)	0(0)	S1-520	0(0)	0(0)	0(0)
1-518	386205077	102885242	1043677272	1045647233	414684543918925690	1120639938750271361	R1-518	0(0)	0(0)	0(0)	0(0)	0(0)	S1-518	0(0)	0(0)	0(0)	0(0)	0(0)	S1-519	0(0)	0(0)	0(0)	0(0)	0(0)	S1-520	0(0)	0(0)	0(0)	0(0)	0(0)	S1-521	0(0)	0(0)	0(0)
1-519	640298234	148142468	669282152	494464155	687514993827281284	718636239153589403	R1-519	0(0)	0(0)	0(0)	0(0)	0(0)	S1-519	0(0)	0(0)	0(0)	0(0)	0(0)	S1-520	0(0)	0(0)	0(0)	0(0)	0(0)	S1-521	0(0)	0(0)	0(0)	0(0)	0(0)	S1-522	0(0)	0(1)	0(0)
1-520	788995804	61034975	177157104	1046873715	847177793776341471	190220993030391411	R1-520	0(0)	0(0)	0(0)	0(0)	0(0)	S1-520	0(0)	0(0)	0(0)	0(0)	0(0)	S1-521	0(0)	0(0)	0(0)	0(0)	0(0)	S1-522	0(0)	0(0)	0(0)	0(0)	0(0)	S1-523	0(0)	0(0)	0(0)
1-521	139823341	121146657	638428894	284289031	150134169324260641	685507805422151687	R1-521	0(0)	0(0)	0(0)	0(0)	0(0)	S1-521	0(0)	0(0)	0(0)	0(0)	0(0)	S1-522	0(0)	0(0)	0(0)	0(0)	0(0)	S1-523	0(0)	0(0)	0(0)	0(0)	0(0)	S1-524	0(0)	0(0)	0(0)
1-522	469618528	313406460	506645906	673361351	504249055152321532	544006899903933895	R1-522	0(0)	0(0)	0(0)	0(0)	0(0)	S1-522	0(0)	0(0)	0(0)	0(0)	0(0)	S1-523	0(0)	0(0)	0(1)	0(0)	0(0)	S1-524	0(0)	0(0)	0(0)	0(0)	0(0)	S1-525	0(0)	0(0)	0(0)
1-523	562831098	261143225	341287080	83840595	604335290031585977	366454211870674515	R1-523	0(0)	0(0)	0(0)	0(0)	0(0)	S1-523	0(0)	0(0)	0(0)	0(1)	0(0)	S1-524	0(0)	0(0)	0(0)	0(0)	0(0)	S1-525	0(0)	0(0)	0(0)	0(0)	0(0)	S1-526	0(0)	0(0)	0(0)
1-524	78188027	13736825	946401867	127380515	83953754739678073	1016191267036965923	R1-524	0(0)	0(0)	0(0)	0(0)	0(0)	S1-524	0(0)	0(0)	0(0)	0(0)	0(0)	S1-525	0(0)	0(0)	0(0)	0(0)	0(0)	S1-526	0(0)	0(0)	0(0)	0(0)	0(0)	S1-527	0(0)	0(0)	0(0)

Table 24 Detailed Results for Seed Index 1-525 to 1-549, Cases R1-525 to R1-549 and S1-525 to S1-549

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15
1-525	760144628	529567489	1066503805	855092983	816199079902088961	1145149741738733303	R1-525	0(0)	0(0)	0(0)	0(0)	S1-525	0(0)	0(0)	0(0)	0(0)
1-526	465472718	708406046	41109110	796123811	499797525955963678	44140571550540451	R1-526	0(0)	0(0)	0(0)	0(1)	S1-526	0(0)	0(0)	0(1)	0(0)
1-527	1052058067	811536240	125968450	653655315	1129638748626030448	135257593923108115	R1-527	0(0)	0(0)	0(0)	0(0)	S1-527	0(0)	0(0)	0(0)	0(0)
1-528	452278773	248604187	195355178	1072448847	485630634926106139	209761026226013519	R1-528	0(0)	0(0)	0(0)	0(0)	S1-528	0(0)	0(0)	0(0)	0(1)
1-529	170176164	31364315	102802609	204997545	182725264766047451	110383461104616361	R1-529	0(0)	0(0)	0(0)	0(0)	S1-529	0(0)	0(0)	0(1)	0(0)
1-530	511084742	664681292	361176767	683025971	548773063758330700	387810601268028979	R1-530	0(0)	0(0)	0(0)	0(0)	S1-530	0(0)	0(0)	0(0)	0(0)
1-531	1018428108	652517669	59850493	987153117	1093528854949306661	64263978508272349	R1-531	0(0)	0(0)	0(0)	0(0)	S1-531	0(0)	0(0)	0(0)	0(0)
1-532	339153044	845900751	375225813	284809509	364162808925613007	402895649147312421	R1-532	0(0)	0(0)	0(0)	0(0)	S1-532	0(0)	0(0)	0(0)	0(0)
1-533	818368563	827404835	570983225	789194565	878716554367283747	613088570274096965	R1-533	0(0)	0(0)	0(0)	0(0)	S1-533	0(0)	0(0)	0(0)	0(0)
1-534	63196525	123640371	4388471	261758801	67856752147601971	4712085117869905	R1-534	0(0)	0(0)	0(0)	0(1)	S1-534	0(0)	0(0)	0(0)	0(0)
1-535	867655015	173242372	275093416	254313079	931637478582089732	295379306520543863	R1-535	0(0)	0(0)	0(0)	0(0)	S1-535	0(0)	0(0)	0(0)	0(0)
1-536	191671050	612645506	335863366	545468521	205805223447640706	360630543769088105	R1-536	0(0)	0(0)	0(0)	0(1)	S1-536	0(0)	0(0)	0(0)	0(0)
1-537	929858465	992075492	460593607	725975241	998427925263015652	494558620428894409	R1-537	0(0)	0(0)	0(0)	0(0)	S1-537	0(0)	0(0)	0(0)	0(0)
1-538	478765645	785564611	962116568	269519253	514070697716401091	1033064798894459285	R1-538	0(0)	0(0)	0(0)	0(0)	S1-538	0(0)	0(0)	0(0)	0(0)
1-539	969442288	152435442	946866075	734348543	1040930730732288754	1016689707188569343	R1-539	0(0)	0(0)	0(0)	0(0)	S1-539	0(0)	0(0)	0(0)	0(0)
1-540	485352911	585409127	682728134	1048580535	521143720526258791	733073752945856951	R1-540	0(0)	0(0)	0(0)	0(0)	S1-540	0(0)	0(0)	0(0)	0(0)
1-541	822079990	571373918	19820618	1068436055	882701668507875678	21282227592563287	R1-541	0(0)	0(0)	0(0)	0(0)	S1-541	0(0)	0(0)	0(0)	0(0)
1-542	669610366	883976688	93307143	677249387	718988656642124272	100187782594298219	R1-542	0(1)	0(0)	0(0)	0(0)	S1-542	0(0)	0(0)	0(0)	0(0)
1-543	340285001	459214989	808641392	480368069	365378238112796813	868272083688347077	R1-543	0(0)	0(0)	0(0)	0(0)	S1-543	0(0)	0(0)	0(0)	0(0)
1-544	769734765	930623581	164093199	402128847	826496411497934941	176193731202383823	R1-544	0(0)	0(0)	0(0)	0(0)	S1-544	0(0)	0(0)	0(0)	0(0)
1-545	935132745	919171838	480483873	633905953	1004091140217598718	515915630831510305	R1-545	0(0)	0(0)	0(0)	0(0)	S1-545	0(0)	0(0)	0(0)	0(0)
1-546	670945424	948940070	615955971	81635577	720422164319153446	661377687886866681	R1-546	0(0)	0(0)	0(0)	0(0)	S1-546	0(0)	0(0)	0(0)	0(0)
1-547	578378514	590403721	302237130	1058239143	621029201175173257	324524648304964263	R1-547	0(0)	0(0)	0(0)	0(1)	S1-547	0(0)	0(0)	0(0)	0(0)
1-548	295248653	715417797	447487867	1057252319	317020827921180869	480486439587701727	R1-548	0(0)	0(0)	0(0)	0(0)	S1-548	0(0)	0(0)	0(0)	0(0)
1-549	785504350	305819872	420616731	419104453	843428873834754272	451633776367961797	R1-549	0(0)	0(0)	0(0)	0(0)	S1-549	0(0)	0(0)	0(0)	0(0)

Table 25 Detailed Results for Seed Index 1-550 to 1-574, Cases R1-550 to R1-574 and S1-550 to S1-574

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case	Order 11	Order 12	Order 13	Order 14	Order 15	Case	Order 11	Order 12	Order 13	Order 14	Order 15
1-550	949667626	346231252	417489866	791464309	1019697849281221076	448276331011819893	R1-550	0(0)	0(0)	0(0)	0(0)	0(0)	S1-550	0(0)	0(0)	0(0)	0(0)	0(0)
1-551	1015465175	609298674	16310519	341684765	1090347429822277874	17513286763131421	R1-551	0(0)	0(0)	0(0)	0(0)	0(0)	S1-551	0(0)	0(0)	0(0)	0(0)	0(0)
1-552	193611589	919490051	864603617	646784667	207888861639888387	928361065401362075	R1-552	0(0)	0(0)	0(0)	0(0)	0(0)	S1-552	0(1)	0(0)	0(0)	0(0)	0(0)
1-553	998191205	1065567531	159273377	333119097	1071799646223025451	171018486667738745	R1-553	0(0)	0(0)	0(0)	0(0)	0(0)	S1-553	0(1)	0(0)	0(0)	0(0)	0(0)
1-554	980138389	668820978	374650861	572770087	1052415582246102514	402278299426080551	R1-554	0(0)	0(0)	0(0)	0(0)	0(0)	S1-554	0(0)	0(0)	0(0)	0(0)	0(0)
1-555	227909746	279857282	1018779768	726891345	244716226657273986	1093906447073508177	R1-555	0(0)	0(0)	0(0)	0(0)	0(0)	S1-555	0(0)	0(0)	0(1)	0(0)	0(0)
1-556	308267168	346561209	314953956	234130069	330999351594195641	338179235425585813	R1-556	0(0)	0(0)	0(0)	0(1)	0(0)	S1-556	0(0)	0(0)	0(0)	0(0)	0(1)
1-557	218507001	312086395	68707479	299248081	234620106122596219	73774094123149777	R1-557	0(0)	0(0)	0(0)	0(0)	0(0)	S1-557	0(0)	0(0)	0(0)	0(0)	0(0)
1-558	835547739	535346541	322729604	178578677	897162553848282477	346528273836336373	R1-558	0(0)	0(0)	0(0)	0(0)	0(0)	S1-558	0(0)	0(0)	0(0)	0(1)	0(0)
1-559	721757053	174998860	990131404	33795957	774980734748083532	1063145499764436853	R1-559	0(0)	0(0)	0(0)	0(0)	0(0)	S1-559	0(0)	0(0)	0(0)	0(0)	0(0)
1-560	916836760	64276023	958962049	241010991	984445975056926263	1029677659881048367	R1-560	0(0)	0(0)	0(0)	0(0)	0(0)	S1-560	0(0)	0(0)	0(1)	0(1)	0(0)
1-561	412111009	775164666	767291466	853909967	442500827269305082	823872939096383951	R1-561	0(1)	0(0)	0(0)	0(0)	0(0)	S1-561	0(0)	0(0)	0(0)	0(0)	0(0)
1-562	889756557	3683060	730489858	577312169	955368828432823028	784357513119733161	R1-562	0(1)	0(0)	0(0)	0(0)	0(0)	S1-562	0(0)	0(0)	0(0)	0(0)	0(0)
1-563	488851570	129596225	3767772807	553573417	524900376566659905	404556721575353385	R1-563	0(0)	0(1)	0(0)	0(0)	0(0)	S1-563	0(0)	0(0)	0(0)	0(0)	0(0)
1-564	451129785	984085604	176667010	973341953	484396919190713444	189694758531368193	R1-564	0(0)	0(0)	0(0)	0(0)	0(0)	S1-564	0(0)	0(0)	0(0)	0(0)	0(0)
1-565	310065059	592869805	1072759506	195469187	332929822602197421	1151866748881248131	R1-565	0(0)	0(0)	0(0)	0(0)	0(0)	S1-565	0(0)	0(0)	0(1)	0(0)	0(0)
1-566	682133318	889545632	145752865	193962665	732435073970037664	156500947312288425	R1-566	0(0)	0(0)	0(0)	0(0)	0(0)	S1-566	0(0)	0(0)	0(0)	0(0)	0(0)
1-567	250719174	1034374479	757006945	281115801	269207664236907855	812830018186083481	R1-567	0(0)	0(0)	0(0)	0(0)	0(0)	S1-567	0(0)	0(0)	0(0)	0(0)	0(0)
1-568	393711024	120008395	542653972	679457605	422743993158676171	582670266375582533	R1-568	0(0)	0(0)	0(0)	0(0)	0(0)	S1-568	0(0)	0(0)	0(1)	0(0)	0(0)
1-569	106251748	383426794	1168083	328238515	114086946084135146	1254219899241907	R1-569	0(0)	0(0)	0(0)	0(0)	0(0)	S1-569	0(0)	0(0)	0(0)	0(1)	0(0)
1-570	555158622	772092746	562804660	793224413	596097032167699274	604306902977324253	R1-570	0(0)	0(0)	0(0)	0(0)	0(1)	S1-570	0(0)	0(0)	0(0)	0(0)	0(0)
1-571	812955038	22635599	771171476	301407267	872903825354744911	828039067558419491	R1-571	0(0)	0(0)	0(0)	0(0)	0(0)	S1-571	0(0)	0(0)	0(0)	0(1)	0(0)
1-572	868280619	137006856	846884547	360871879	932309215725915912	909335358574065607	R1-572	0(0)	0(0)	0(0)	0(0)	0(1)	S1-572	0(0)	0(0)	0(0)	0(0)	0(0)
1-573	1008253863	412759877	365478164	988689965	1082604342325425989	392429191434221101	R1-573	0(0)	0(0)	0(2)	0(0)	0(0)	S1-573	0(0)	0(0)	0(0)	0(0)	0(0)
1-574	774789349	236780449	152815459	1062195793	831923729047813025	164084350744253009	R1-574	0(0)	0(1)	0(0)	0(1)	0(0)	S1-574	0(0)	0(0)	0(0)	0(1)	0(0)

Table 26 Detailed Results for Seed Index 1-575 to 1-599, Cases R1-575 to R1-599 and S1-575 to S1-599

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15	
1-575	762752217	53032469	409147866	943301937	818998956794656277	439319176867849521	R1-575	0(0)	0(0)	0(0)	0(0)	S1-575	0(0)	0(0)	0(1)	0(0)	0(0)
1-576	335232730	975243339	407894870	8045767	359953403949942859	437973781722088647	R1-576	0(0)	0(0)	0(0)	0(0)	S1-576	0(0)	0(0)	0(0)	0(0)	0(0)
1-577	94968679	486234708	793736240	417924825	101971843098565204	852267798530426585	R1-577	0(0)	0(0)	0(0)	0(0)	S1-577	0(0)	0(0)	0(0)	0(0)	0(0)
1-578	867081500	223232498	58600217	318540575	931021671589888498	62921504206916383	R1-578	0(0)	0(0)	0(1)	0(1)	S1-578	0(0)	0(0)	0(0)	0(0)	0(0)
1-579	273342726	316572360	891851512	893390681	293499517508944584	957618270125428569	R1-579	0(0)	0(1)	0(0)	0(0)	S1-579	0(0)	0(0)	0(0)	0(0)	0(0)
1-580	426289534	108358690	791362850	542906975	457724901897628706	849719390547745375	R1-580	0(0)	0(0)	0(0)	0(0)	S1-580	0(0)	0(0)	0(1)	0(0)	0(0)
1-581	248828165	175637448	399823580	655988007	267177207925310408	429307300723397927	R1-581	0(1)	0(0)	0(0)	0(0)	S1-581	0(0)	0(0)	0(0)	0(0)	0(0)
1-582	546478007	935997621	580203600	1011396401	586776292948062389	622988872766762801	R1-582	0(0)	0(0)	0(0)	0(0)	S1-582	0(0)	0(0)	0(0)	0(0)	0(0)
1-583	542010423	572182201	429916676	211382513	581979260791213753	461619516067639537	R1-583	0(0)	0(0)	0(0)	0(0)	S1-583	0(0)	0(0)	0(0)	0(0)	0(0)
1-584	686754350	316442761	355386813	285504597	737396868725377161	381593685101671509	R1-584	0(0)	0(0)	0(0)	0(0)	S1-584	0(0)	0(0)	0(0)	0(0)	0(0)
1-585	201198196	582701222	648444850	205423075	216034918541250726	696262356207829475	R1-585	0(0)	0(0)	0(0)	0(0)	S1-585	0(0)	0(0)	0(0)	0(0)	0(0)
1-586	514468733	599137905	403546716	273131985	552406596361526897	433304987180181969	R1-586	0(0)	0(0)	0(0)	0(0)	S1-586	0(0)	0(1)	0(0)	0(0)	0(0)
1-587	771498473	534909491	504663199	287468419	828390178147144243	541877984087403395	R1-587	0(0)	0(0)	0(0)	0(1)	S1-587	0(0)	0(1)	0(0)	0(0)	0(0)
1-588	542564287	58999002	880012795	699011955	582573967219638490	944906544345650035	R1-588	0(0)	0(0)	0(1)	0(0)	S1-588	0(0)	0(0)	0(0)	0(0)	0(0)
1-589	91820042	942170109	915778401	912866431	98591020319006717	983309571582409855	R1-589	0(0)	0(0)	0(0)	0(0)	S1-589	0(0)	0(0)	0(0)	0(0)	0(0)
1-590	737445823	524831448	984301445	427302217	791826423614032600	1056885629347437897	R1-590	0(0)	0(0)	0(2)	0(0)	S1-590	0(1)	0(0)	0(0)	0(0)	0(0)
1-591	435054897	859557229	797993152	929987831	467136639504469357	856838623497977079	R1-591	0(0)	0(0)	0(0)	0(1)	S1-591	0(0)	0(0)	0(0)	0(0)	0(0)
1-592	473334499	694505852	749541505	1013361515	508239049012892028	804814063755766635	R1-592	0(0)	0(0)	0(0)	0(0)	S1-592	0(0)	0(0)	0(0)	0(0)	0(0)
1-593	192631900	495700274	780425603	941256501	206836928162285874	837975611402776373	R1-593	0(0)	0(0)	0(0)	0(0)	S1-593	0(0)	0(1)	0(0)	0(0)	0(0)
1-594	351778679	430065675	246821296	444096463	377719480863836171	265022349013180367	R1-594	0(0)	0(0)	0(0)	0(0)	S1-594	0(0)	0(0)	0(0)	0(0)	0(0)
1-595	262145763	217492065	762866172	368378037	281476869934983777	819121315359555765	R1-595	0(0)	0(0)	0(0)	0(0)	S1-595	0(0)	0(0)	0(0)	0(0)	0(0)
1-596	98058251	635841771	386594167	116986519	105289245922831595	415102326139327127	R1-596	0(0)	0(0)	0(0)	0(0)	S1-596	0(0)	0(0)	0(0)	0(0)	0(0)
1-597	258759950	256363461	700684958	163239547	277841380947512261	752354745015522939	R1-597	0(0)	0(0)	0(0)	0(0)	S1-597	0(0)	0(0)	0(0)	0(0)	0(0)
1-598	995462719	585249766	1013888348	969224903	1068869956208309222	1088654325083091655	R1-598	0(0)	0(0)	0(0)	0(0)	S1-598	0(0)	0(0)	0(0)	0(0)	0(0)
1-599	731757042	428047480	368384661	740565547	785718141429972088	395550018576327211	R1-599	0(0)	0(0)	0(0)	0(0)	S1-599	0(0)	0(1)	0(0)	0(0)	0(0)

Table 27 Detailed Results for Seed Index 1-600 to 1-624, Cases R1-600 to R1-624 and S1-600 to S1-624

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15
1-600	241618615	314245639	105621169	8274041	259436012696699399	113409866663346297	R1-600	0(0)	0(0)	0(0)	0(0)	S1-600	0(0)	0(0)	0(0)	0(0)
1-601	118474732	105379638	732249824	392362605	127211274940970806	786247262037801581	R1-601	0(0)	0(0)	0(0)	0(0)	S1-601	0(0)	0(0)	0(0)	0(0)
1-602	905314791	520568230	686446846	830303321	972074355503087014	737066689333390425	R1-602	0(0)	0(0)	0(0)	0(0)	S1-602	0(0)	0(0)	0(0)	0(0)
1-603	511753951	480033378	967659975	298525433	549491621265980002	1039016986866819833	R1-603	0(0)	0(0)	0(0)	0(1)	S1-603	0(0)	0(0)	0(0)	0(0)
1-604	512207818	22170263	596518273	766354625	549978956788550295	640506619266704577	R1-604	0(0)	0(0)	0(0)	0(0)	S1-604	0(0)	0(0)	0(0)	0(0)
1-605	186617833	217376994	36965444	612372283	200379372613724386	39691343877902139	R1-605	0(0)	0(0)	0(0)	0(0)	S1-605	0(0)	0(0)	0(0)	0(0)
1-606	234028993	243316886	457646594	767234461	251286718056020118	491394289356181917	R1-606	0(0)	0(0)	0(0)	0(0)	S1-606	0(0)	0(0)	0(0)	0(0)
1-607	431122020	82055841	674221560	209129595	462913744203420321	723939887823655035	R1-607	0(0)	0(0)	0(0)	0(0)	S1-607	0(0)	0(0)	0(0)	0(0)
1-608	932542751	898034805	101296369	545600349	1001310155314752629	108766148560237405	R1-608	0(0)	0(0)	0(0)	0(0)	S1-608	0(0)	0(0)	0(1)	0(0)
1-609	740381807	243791867	263183417	133833873	794978912148387835	282591042349966481	R1-609	0(0)	0(0)	0(0)	0(0)	S1-609	0(0)	0(0)	0(0)	0(0)
1-610	971725176	804357900	990474933	423969615	1043381963709318924	1063514361609667407	R1-610	0(0)	0(0)	0(0)	0(0)	S1-610	0(0)	0(0)	0(0)	0(1)
1-611	1005554407	752664975	238570155	494297035	1079705823856083343	256162753875959755	R1-611	0(0)	0(0)	0(0)	0(1)	S1-611	0(0)	0(0)	0(0)	0(0)
1-612	492596916	883003412	419676758	119126513	528921911965618196	450624487744453105	R1-612	0(0)	0(0)	0(0)	0(0)	S1-612	0(0)	0(0)	0(0)	0(0)
1-613	588661486	676068486	765940753	635196901	632070458372258950	822422621837350373	R1-613	0(0)	0(0)	0(0)	0(0)	S1-613	0(0)	0(0)	0(0)	0(0)
1-614	343161441	357217558	690496614	1018619495	368466791943025942	741415094800803431	R1-614	0(0)	0(0)	0(0)	0(0)	S1-614	0(0)	0(0)	0(0)	0(0)
1-615	726785720	619461317	77333645	540413441	780380225269414597	83036369579281921	R1-615	0(0)	0(0)	0(0)	0(1)	S1-615	0(0)	0(0)	0(0)	0(1)
1-616	837709257	116494577	26642629	75523947	899483465709359345	28607305134139243	R1-616	0(0)	0(0)	0(0)	0(0)	S1-616	0(0)	0(0)	0(0)	0(1)
1-617	755319934	526977710	569629744	797409829	811018604163697326	611635281124622885	R1-617	0(0)	0(0)	0(0)	0(1)	S1-617	0(0)	0(0)	0(0)	0(0)
1-618	97728302	503345674	951740320	1050044761	104934965749248522	1021923388221188441	R1-618	0(0)	0(0)	0(0)	0(0)	S1-618	0(0)	0(0)	0(0)	0(0)
1-619	91419984	141236500	725255826	799405669	98161460511447316	778737514275272293	R1-619	0(0)	0(0)	0(0)	0(0)	S1-619	0(0)	0(0)	0(0)	0(0)
1-620	975044190	1021563130	168495782	236587883	1046945728072765690	180920968537574251	R1-620	0(0)	0(0)	0(0)	0(0)	S1-620	0(0)	0(0)	0(0)	0(1)
1-621	271558220	533320438	946566962	367219737	291583418998313718	1016368536683238425	R1-621	0(0)	0(0)	0(0)	0(0)	S1-621	0(0)	0(0)	0(0)	0(0)
1-622	268597903	10241550	512667979	1021452395	288404802300036622	550473051899306091	R1-622	0(0)	0(0)	0(0)	0(0)	S1-622	0(0)	0(0)	0(0)	0(0)
1-623	765104273	970102633	755654368	646929341	821524458611316585	811377700056816573	R1-623	0(0)	0(0)	0(0)	0(0)	S1-623	0(0)	0(0)	0(0)	0(0)
1-624	664563503	895384839	1048178210	702605243	713569628770434311	1125472783785060283	R1-624	0(0)	0(0)	0(0)	0(0)	S1-624	0(0)	0(0)	0(0)	0(0)

Table 28 Detailed Results for Seed Index 1-625 to 1-649, Cases R1-625 to R1-649 and S1-625 to S1-649

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-625	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-625	Order 11	Order 12	Order 13	Order 14	Order 15
	908445080	561660630	641751909	431515599	975435477764686550	689075865756657615		0(0)	0(0)	0(0)	0(0)	0(0)		0(0)	0(0)	0(0)	0(0)	0(0)
1-625	908445080	561660630	641751909	431515599	975435477764686550	689075865756657615	R1-625	0(0)	0(0)	0(0)	0(0)	0(0)	S1-625	0(0)	0(0)	0(0)	0(0)	0(0)
1-626	511481635	1055259592	999625950	410371393	549199224762661832	1073340191281104193	R1-626	0(0)	0(0)	0(1)	0(0)	0(0)	S1-626	0(0)	0(0)	0(0)	0(0)	0(0)
1-627	537080066	1052660921	281301134	807619015	576685330753541305	302044793522047431	R1-627	0(0)	0(0)	0(1)	0(0)	0(0)	S1-627	0(0)	0(1)	0(0)	0(0)	0(0)
1-628	516643743	77478160	693378974	250302897	554741995044485392	744510004516311473	R1-628	0(0)	0(0)	0(0)	0(0)	0(0)	S1-628	0(0)	0(0)	0(0)	0(0)	0(0)
1-629	87397469	492471985	125839750	1015169533	93842318269515441	135119403711873533	R1-629	0(0)	0(0)	0(0)	0(0)	0(0)	S1-629	0(0)	0(0)	0(0)	0(0)	0(0)
1-630	611164805	874914566	170410284	393521899	656233213360218886	182976649564039915	R1-630	0(0)	0(0)	0(0)	0(0)	0(0)	S1-630	0(0)	0(1)	0(1)	0(0)	0(0)
1-631	247177137	781110505	601899344	399962219	265404430714588393	646284499890925675	R1-631	0(0)	0(0)	0(0)	0(0)	0(0)	S1-631	0(0)	0(0)	0(0)	0(0)	0(0)
1-632	8632016	369312794	608517043	56624079	9268556973949978	653390199742530511	R1-632	0(0)	0(0)	0(0)	0(0)	0(0)	S1-632	0(0)	0(2)	0(0)	0(0)	0(0)
1-633	538807050	216704685	789695165	893732075	578539664867763885	847928727764813035	R1-633	0(0)	0(0)	0(0)	0(0)	0(0)	S1-633	0(0)	0(0)	0(0)	0(0)	0(0)
1-634	698387758	75292272	518475647	854275831	749888145209482864	556708987763635959	R1-634	0(0)	0(0)	0(0)	0(0)	0(0)	S1-634	0(0)	0(0)	0(0)	0(0)	0(0)
1-635	541318768	906951785	1055505855	248245403	581236602224704617	1133340782238624923	R1-635	0(0)	0(0)	0(0)	0(0)	0(0)	S1-635	0(0)	0(0)	0(0)	0(0)	0(0)
1-636	146911720	275968061	881813521	520429587	157745258475745341	946840058986831891	R1-636	0(0)	0(0)	0(0)	0(0)	0(0)	S1-636	0(0)	0(0)	0(0)	0(0)	0(0)
1-637	779969481	761952777	307898839	298620241	837485853955226121	330603861293962577	R1-637	0(0)	0(0)	0(0)	0(0)	0(1)	S1-637	0(0)	0(0)	0(0)	0(0)	0(0)
1-638	1053178853	254707729	996097216	41786265	1130842182873155601	1069551241630948249	R1-638	0(0)	0(0)	0(0)	0(0)	0(0)	S1-638	0(0)	0(0)	0(0)	0(0)	0(0)
1-639	934566252	582085491	25278822	580645343	1003482872653409139	27142929023496671	R1-639	0(0)	0(0)	0(0)	0(0)	0(0)	S1-639	0(1)	0(0)	0(0)	0(1)	0(0)
1-640	516572399	70692554	896655931	720917505	554665390001008330	962776975573275649	R1-640	0(0)	0(0)	0(1)	0(0)	0(0)	S1-640	0(0)	0(0)	0(0)	0(0)	0(0)
1-641	747923774	656490576	268306922	855936555	803077037964214352	288092364676042283	R1-641	0(0)	0(0)	0(0)	0(0)	0(0)	S1-641	0(0)	0(0)	0(0)	0(0)	0(0)
1-642	413857924	996949167	554695689	558006211	444376563189562543	595599961429802947	R1-642	0(0)	0(0)	0(0)	0(0)	0(0)	S1-642	0(0)	0(0)	0(0)	0(0)	0(0)
1-643	939681990	872331379	788766388	172122731	1008975854794881139	846931460333134443	R1-643	0(0)	0(0)	0(0)	0(0)	0(0)	S1-643	0(0)	0(0)	0(0)	0(0)	0(0)
1-644	221014012	726505053	657472857	153226967	237311989100942941	705956104858898135	R1-644	0(0)	0(0)	0(0)	0(0)	0(0)	S1-644	0(0)	0(0)	0(0)	0(0)	0(0)
1-645	329129040	251324219	530194226	692021407	353399615992293179	569291715991529631	R1-645	0(0)	0(0)	0(0)	0(0)	0(0)	S1-645	0(0)	0(0)	0(0)	0(0)	0(0)
1-646	596695207	498179405	751429890	497899021	640696600434416973	806841701194618381	R1-646	0(0)	0(0)	0(0)	0(0)	0(1)	S1-646	0(0)	0(0)	0(0)	0(0)	0(0)
1-647	433392842	198047674	62429726	923332765	465352020875671482	67033408790392989	R1-647	0(0)	0(0)	0(0)	0(0)	0(0)	S1-647	0(0)	0(0)	0(0)	0(0)	0(0)
1-648	728149368	503885495	1031116204	474969799	781844431044652727	1107152594113885895	R1-648	0(0)	0(0)	0(0)	0(0)	0(0)	S1-648	0(0)	0(0)	0(0)	0(0)	0(0)
1-649	252215080	709306925	752875758	1037024439	270813880748812845	808394190677327031	R1-649	0(0)	0(0)	0(0)	0(0)	0(0)	S1-649	0(0)	0(0)	0(0)	0(0)	0(0)

Table 29 Detailed Results for Seed Index 1-650 to 1-674, Cases R1-650 to R1-674 and S1-650 to S1-674

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-650	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-650	Order 11	Order 12	Order 13	Order 14	Order 15
								0(0)	0(0)	0(0)	0(0)	0(0)		0(0)	0(0)	0(0)	0(0)	0(0)
1-650	92938887	488011062	1050060764	1048872817	99792370535920950	1127494161097066353	R1-650	0(0)	0(0)	0(0)	0(0)	0(0)	S1-650	0(0)	0(0)	0(0)	0(0)	0(0)
1-651	709865538	407722299	83598323	565959047	762212317974583611	89763016387320199	R1-651	0(0)	0(0)	0(0)	0(0)	0(0)	S1-651	0(0)	0(1)	0(1)	0(0)	0(0)
1-652	415291614	170693615	321962208	248680857	445915975278957551	345704288725668249	R1-652	0(0)	0(0)	0(0)	0(0)	0(0)	S1-652	0(0)	0(0)	0(0)	0(0)	0(0)
1-653	420667032	124136485	998644084	306717437	451687786360482853	1072285920587686653	R1-653	0(0)	0(0)	0(0)	0(0)	0(0)	S1-653	0(0)	0(0)	0(0)	0(1)	0(0)
1-654	446259244	87409133	213031542	138571399	479167214716830189	228740876615184007	R1-654	0(0)	0(0)	0(0)	0(0)	0(0)	S1-654	0(0)	0(0)	0(0)	0(0)	0(0)
1-655	49680735	846973400	127288131	465552577	53344283863534040	136674590419043521	R1-655	0(0)	0(0)	0(0)	0(0)	0(0)	S1-655	0(0)	0(0)	0(0)	0(0)	0(0)
1-656	839608825	804214244	681281924	192828777	901523112006211044	731520895926818153	R1-656	0(0)	0(0)	0(0)	0(0)	0(0)	S1-656	0(0)	0(0)	0(0)	0(0)	0(0)
1-657	163114759	766247975	470559543	657381471	175143139616228391	505259462658807903	R1-657	0(0)	0(0)	0(0)	0(0)	0(0)	S1-657	0(0)	0(0)	0(0)	0(1)	0(0)
1-658	396379935	569976221	642595411	677924829	425609714973877661	689981569379094493	R1-658	0(0)	0(0)	0(0)	0(0)	0(1)	S1-658	0(0)	0(0)	0(0)	0(0)	0(0)
1-659	470589684	762491212	63165061	282432645	505291826416234828	67822968093643909	R1-659	0(0)	0(0)	0(0)	0(0)	0(0)	S1-659	0(0)	0(0)	0(1)	0(0)	0(0)
1-660	691965525	912477133	928935348	836416505	742992325871094733	997436735776011257	R1-660	0(0)	0(0)	0(0)	0(0)	0(0)	S1-660	0(0)	0(0)	0(0)	0(0)	0(0)
1-661	669706179	793017217	523258060	580793815	719091534976547713	561844064347895255	R1-661	0(0)	0(0)	0(0)	0(0)	0(0)	S1-661	0(0)	0(0)	0(0)	0(0)	0(0)
1-662	797255610	870903586	996673815	93552629	856046693746536226	1070170360144691189	R1-662	0(0)	0(0)	0(0)	0(0)	0(0)	S1-662	0(0)	0(0)	0(0)	0(0)	0(0)
1-663	907752364	861396708	35611564	399928441	974691679923068644	38237626084781177	R1-663	0(0)	0(0)	0(0)	0(0)	0(0)	S1-663	0(0)	0(0)	0(0)	0(0)	0(0)
1-664	199970316	948685340	251926345	441992101	214716492796381724	270503853635945381	R1-664	0(0)	0(0)	0(0)	0(0)	0(0)	S1-664	0(0)	0(0)	0(0)	0(0)	0(0)
1-665	548158308	293443607	1305637	1017350809	588580501766117399	1401918071212697	R1-665	0(0)	0(0)	0(0)	0(0)	0(0)	S1-665	0(1)	0(1)	0(0)	0(0)	0(0)
1-666	337975349	173435195	812174691	225263163	362898267875731771	872065934346239547	R1-666	0(0)	0(0)	0(0)	0(1)	0(0)	S1-666	0(0)	0(0)	0(0)	0(0)	0(0)
1-667	555910311	465746782	451339097	922543893	596904151779294046	484621666177836821	R1-667	0(0)	0(0)	0(0)	0(0)	0(0)	S1-667	0(0)	0(0)	0(0)	0(0)	0(0)
1-668	502576190	589610782	253429310	106069729	539637075539181342	272117649680531169	R1-668	0(0)	0(0)	0(0)	0(0)	0(0)	S1-668	0(0)	0(0)	0(0)	0(0)	0(0)
1-669	1026321810	252501778	934751853	912131407	1102004652532883218	1003682160539731279	R1-669	0(0)	0(0)	0(0)	0(0)	0(0)	S1-669	0(0)	0(0)	0(0)	0(0)	0(0)
1-670	175007892	243671557	983045745	711673819	187913293414146565	1055537332023412699	R1-670	0(0)	0(0)	0(0)	0(0)	0(0)	S1-670	0(0)	0(0)	0(1)	0(0)	0(0)
1-671	72317760	120673679	454139728	109529687	77650603650667919	487628820003113559	R1-671	0(0)	0(1)	0(0)	0(0)	0(0)	S1-671	0(0)	0(0)	0(0)	0(0)	0(0)
1-672	838137689	872920112	593818806	228431589	899943491822924848	637608088108373733	R1-672	0(0)	0(0)	0(0)	0(0)	0(1)	S1-672	0(0)	0(0)	0(0)	0(0)	0(0)
1-673	188554430	669104563	593961811	364894279	202458778260584883	637761638694377543	R1-673	0(0)	0(0)	0(0)	0(0)	0(0)	S1-673	0(0)	0(0)	0(0)	0(0)	0(0)
1-674	136621338	269570158	337987453	16945177	146696044931010670	362911264290279449	R1-674	0(0)	0(0)	0(0)	0(0)	0(0)	S1-674	0(0)	0(0)	0(0)	0(0)	0(0)

Table 30 Detailed Results for Seed Index 1-675 to 1-699, Cases R1-675 to R1-699 and S1-675 to S1-699

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15
1-675	921472654	1018524293	180466648	174501569	989423729290605189	193774587969187521	R1-675	0(0)	0(0)	0(0)	0(0)	S1-675	0(0)	0(0)	0(0)	0(0)
1-676	559618047	909828453	290062278	1043030429	600885303438926181	311452000496345501	R1-676	0(0)	0(0)	0(0)	0(0)	S1-676	0(0)	0(0)	0(0)	0(0)
1-677	995025111	458377867	955494904	326050211	1068400078069320331	1025954841369715107	R1-677	0(0)	0(0)	0(0)	0(0)	S1-677	0(0)	0(0)	0(0)	0(0)
1-678	911149701	747848737	219039675	1043962547	978339542636643361	235192061206829747	R1-678	0(0)	0(0)	0(0)	0(0)	S1-678	0(0)	0(0)	0(0)	0(0)
1-679	605263676	877264203	557096250	254081521	649896924346449227	598177543872641521	R1-679	0(0)	0(0)	0(0)	0(0)	S1-679	0(0)	0(0)	0(0)	0(0)
1-680	453447205	372354232	884157267	557276735	486885229356756152	949356637128711743	R1-680	0(0)	0(0)	0(0)	0(0)	S1-680	0(0)	0(0)	0(0)	0(0)
1-681	553568665	140734006	196711716	857523913	594389828207078966	211217597597533897	R1-681	0(0)	0(0)	0(0)	0(0)	S1-681	0(0)	0(0)	0(0)	0(0)
1-682	981372391	803047765	715243372	252276907	1053740581938628949	767986723107467435	R1-682	0(0)	0(0)	0(0)	0(1)	S1-682	0(0)	0(0)	0(1)	0(0)
1-683	900836264	254989506	57170211	1057127661	967265573487695042	61386047694732525	R1-683	0(0)	0(0)	0(0)	0(0)	S1-683	0(0)	0(0)	0(0)	0(0)
1-684	87642901	868759245	981140221	207391221	94105849249150669	1053491290703694325	R1-684	0(0)	0(0)	0(0)	0(0)	S1-684	0(0)	0(0)	0(0)	0(0)
1-685	243959363	456865557	78746024	1026848231	261949371866363669	84552900469356007	R1-685	0(0)	0(0)	0(0)	0(0)	S1-685	0(0)	0(0)	0(0)	0(0)
1-686	980118106	159283243	792120041	896355559	1052393803031148587	850532418546650343	R1-686	0(0)	0(0)	0(0)	0(1)	S1-686	0(0)	0(1)	0(0)	0(0)
1-687	198844393	564256310	567623201	158876159	213507541796249142	609480771345334783	R1-687	0(0)	0(0)	0(0)	0(0)	S1-687	0(0)	0(0)	0(0)	0(0)
1-688	477364024	301474545	762333664	207198227	512565718143214321	818549539087161363	R1-688	0(0)	0(0)	0(0)	0(0)	S1-688	0(0)	0(0)	0(0)	0(0)
1-689	187956233	669536328	39818199	17722759	201816469123125320	42754465640377735	R1-689	0(0)	0(0)	0(0)	0(0)	S1-689	0(1)	0(0)	0(1)	0(0)
1-690	1050646430	35435512	880702955	232005093	1128123014162723832	945647597535895013	R1-690	0(0)	0(0)	0(0)	0(0)	S1-690	0(0)	0(0)	0(0)	0(0)
1-691	1070660457	442256346	932231867	487635159	1149612912426109914	1000976345751140567	R1-691	0(0)	0(0)	0(0)	0(0)	S1-691	0(0)	0(0)	0(0)	0(0)
1-692	6429485	1015116592	765151451	1060755695	6903607966397232	821575115693742319	R1-692	0(0)	0(0)	0(0)	0(0)	S1-692	0(0)	0(0)	0(0)	0(1)
1-693	450121319	930066852	449355033	650743985	483314087014412708	482491293407744177	R1-693	0(0)	0(0)	0(0)	0(0)	S1-693	0(0)	0(0)	0(0)	0(0)
1-694	1055736365	813294754	912387537	253791151	1133588291031524514	979668658427038639	R1-694	0(0)	0(0)	0(0)	0(0)	S1-694	0(0)	0(0)	0(0)	0(0)
1-695	832821931	148073871	354737865	193963977	894235739407216015	380896882400929737	R1-695	0(0)	0(0)	0(0)	0(0)	S1-695	0(0)	0(0)	0(0)	0(0)
1-696	649167006	44860430	1016499422	912207243	697037765147919374	1091457944385432971	R1-696	0(0)	0(0)	0(0)	0(0)	S1-696	0(0)	0(0)	0(0)	0(0)
1-697	149942908	1055772130	406941644	47482417	16099972587556322	436950263137601073	R1-697	0(0)	0(0)	0(0)	0(1)	S1-697	0(0)	0(0)	0(2)	0(0)
1-698	1036631136	763560961	975113071	981909447	1113074207547393025	1047019688443690951	R1-698	0(0)	0(1)	0(0)	0(0)	S1-698	0(0)	0(0)	0(0)	0(0)
1-699	288797887	934497262	678859502	362171661	310094370889223150	728919840279383309	R1-699	0(0)	0(0)	0(0)	0(0)	S1-699	0(0)	0(0)	0(0)	0(0)

Table 31 Detailed Results for Seed Index 1-700 to 1-724, Cases R1-700 to R1-724 and S1-700 to S1-724

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-700	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-700	Order 11	Order 12	Order 13	Order 14	Order 15
1-700	519539837	896881630	277863076	1010162561	557851653117924318	298353207056653185	R1-700	0(1)	0(1)	0(0)	0(0)	0(0)	S1-700	0(0)	0(0)	0(0)	0(0)	0(0)
1-701	1045368133	330513357	101377644	963072777	1122455486209407949	108853417344455433	R1-701	0(0)	0(0)	0(0)	0(0)	0(0)	S1-701	0(0)	0(0)	0(0)	0(0)	0(0)
1-702	311586890	773483668	193661146	199939543	334563876376571028	207942072343909847	R1-702	0(0)	0(0)	0(0)	0(0)	0(0)	S1-702	0(0)	0(0)	0(0)	0(0)	0(0)
1-703	803154095	768183668	955123237	62333411	862380143686552948	1025555766703497699	R1-703	0(0)	0(0)	0(0)	0(0)	0(0)	S1-703	0(0)	0(0)	0(0)	0(0)	0(0)
1-704	632830609	631890477	54390502	34184389	679496693022581293	58401356859940037	R1-704	0(0)	0(0)	0(0)	0(0)	0(0)	S1-704	0(0)	0(0)	0(0)	0(0)	0(0)
1-705	649266587	257463498	851960965	549537359	697144689645098186	914786121085437519	R1-705	0(0)	0(0)	0(0)	0(0)	0(0)	S1-705	0(0)	0(0)	0(0)	0(0)	0(0)
1-706	417322995	953140832	227733153	114020035	448097154801583712	244526611201511107	R1-706	0(0)	0(0)	0(0)	0(0)	0(0)	S1-706	0(0)	0(0)	0(0)	0(0)	0(0)
1-707	782991294	1002957752	252360795	1067228235	840730501198638008	270970341396618315	R1-707	0(0)	0(0)	0(0)	0(0)	0(0)	S1-707	0(0)	0(0)	0(0)	0(0)	0(0)
1-708	215677810	731147075	362783806	509101651	231582285836872515	389536146081203795	R1-708	0(0)	0(0)	0(0)	0(0)	0(0)	S1-708	0(0)	0(0)	0(0)	0(1)	0(0)
1-709	259471045	576721351	355419022	950441371	278604913710207431	381628269917017499	R1-709	0(0)	0(0)	0(0)	0(1)	0(0)	S1-709	0(0)	0(1)	0(0)	0(0)	0(0)
1-710	785938965	830356146	569005655	855950001	843895538662128306	610965170721964721	R1-710	0(0)	0(0)	0(0)	0(0)	0(0)	S1-710	0(0)	0(0)	0(0)	0(0)	0(0)
1-711	807799730	612396000	225902869	253381193	867368356129303520	242561358860274249	R1-711	0(0)	0(0)	0(0)	0(0)	0(0)	S1-711	0(0)	0(0)	0(0)	0(0)	0(0)
1-712	773014054	643680468	829620238	851787339	830017520963274964	890797948429221451	R1-712	0(0)	0(0)	0(0)	0(0)	0(0)	S1-712	0(0)	0(0)	0(1)	0(0)	0(0)
1-713	653358243	423112783	917263905	425152389	701538071987368015	984904618869215109	R1-713	0(0)	0(0)	0(0)	0(0)	0(0)	S1-713	0(0)	0(0)	0(0)	0(0)	0(0)
1-714	104131829	775560662	996594733	147938203	111810700782476758	1070085446548151195	R1-714	0(0)	0(0)	0(0)	0(0)	0(0)	S1-714	0(0)	0(0)	0(0)	0(0)	0(0)
1-715	1022817261	376980484	411266963	95238857	1098241671821804548	441594539097799369	R1-715	0(0)	0(0)	0(0)	0(0)	0(0)	S1-715	0(0)	0(0)	0(0)	0(0)	0(0)
1-716	407727721	684239816	949987898	792093469	437794307526142920	1020041739168539421	R1-716	0(0)	0(1)	0(0)	0(0)	0(0)	S1-716	0(1)	0(0)	0(0)	0(0)	0(0)
1-717	920405370	751978060	72104599	794308573	988277741555172940	77421724443357149	R1-717	0(0)	0(0)	0(0)	0(0)	0(0)	S1-717	0(0)	0(0)	0(0)	0(1)	0(0)
1-718	178638888	868507194	751719205	235044395	191812046306958906	807152350547574315	R1-718	0(0)	0(0)	0(0)	0(0)	0(0)	S1-718	0(0)	0(0)	0(0)	0(0)	0(0)
1-719	105124001	1065929387	639069655	339076055	112876037645847211	686195817361826775	R1-719	0(0)	0(0)	0(0)	0(0)	0(0)	S1-719	0(0)	0(0)	0(0)	0(0)	0(0)
1-720	850362836	1048323340	874123496	328117723	913070143636776204	938582957324414427	R1-720	0(0)	0(0)	0(0)	0(0)	0(0)	S1-720	0(0)	0(0)	0(0)	0(0)	0(0)
1-721	678968232	392174851	364926784	346290291	729036588257910019	391837151024904307	R1-721	0(0)	0(1)	0(0)	0(0)	0(0)	S1-721	0(0)	0(0)	0(0)	0(0)	0(0)
1-722	194396367	332365179	57274536	715741055	208731510013918587	61498065469134719	R1-722	0(0)	0(0)	0(0)	0(0)	0(0)	S1-722	0(0)	0(0)	0(0)	0(0)	0(0)
1-723	109168252	906563965	631566177	593219339	117218518931935613	678139019461906187	R1-723	0(0)	0(0)	0(0)	0(0)	0(0)	S1-723	0(0)	0(0)	0(0)	0(0)	0(0)
1-724	671152026	773002469	596876333	491488241	720644001351537893	640891082989339633	R1-724	0(0)	0(1)	0(0)	0(0)	0(0)	S1-724	0(1)	0(0)	0(0)	0(0)	0(0)

Table 32 Detailed Results for Seed Index 1-725 to 1-749, Cases R1-725 to R1-749 and S1-725 to S1-749

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15
1-725	290209343	1039185489	656470427	921294955	311609910333847121	704879754610333803	R1-725	0(0)	0(0)	0(0)	0(0)	S1-725	0(0)	0(0)	0(0)	0(0)
1-726	760452994	868541987	931897468	473010407	816530185712363043	1000617287544312039	R1-726	0(0)	0(0)	0(0)	0(0)	S1-726	0(0)	0(0)	0(0)	0(0)
1-727	16369858	184649059	757843663	246916635	17577001372190051	813728437263377947	R1-727	0(1)	0(0)	0(0)	0(0)	S1-727	0(0)	0(0)	0(0)	0(0)
1-728	939816467	600779562	827399591	375440361	1009120248102595370	888413546392634345	R1-728	0(0)	0(0)	0(0)	0(0)	S1-728	0(0)	0(0)	0(1)	0(0)
1-729	816970402	917146901	694402186	59407437	877215290514640149	745608669844634701	R1-729	0(0)	0(0)	0(0)	0(0)	S1-729	0(0)	0(0)	0(0)	0(1)
1-730	792010168	405620475	1019591489	996684017	850414442820486907	1094778026130419953	R1-730	0(0)	0(0)	0(0)	0(0)	S1-730	0(0)	0(0)	0(0)	0(0)
1-731	749344007	983433915	444027431	721369717	804602001863082683	476770824389343861	R1-731	0(1)	0(0)	0(0)	0(0)	S1-731	0(0)	0(0)	0(1)	0(0)
1-732	172580367	1050036072	646059149	395049177	185306759099205480	693700729454196953	R1-732	0(0)	0(0)	0(0)	0(0)	S1-732	0(0)	0(1)	0(0)	0(1)
1-733	329562537	765623325	253010766	643693915	353865080366070813	271668242020171099	R1-733	0(0)	0(0)	0(0)	0(0)	S1-733	0(0)	0(0)	0(0)	0(0)
1-734	152292697	135172828	289192675	523645025	163523038393832156	310518270865584225	R1-734	0(0)	0(0)	0(0)	0(0)	S1-734	0(0)	0(0)	0(0)	0(0)
1-735	776306927	592117193	835087570	872378419	833553216372932041	896668451483906099	R1-735	0(0)	0(0)	0(0)	0(0)	S1-735	0(0)	0(0)	0(1)	0(0)
1-736	25405399	1046942490	231598271	494540199	27278840508650266	248676750433326503	R1-736	0(0)	0(0)	0(0)	0(0)	S1-736	0(0)	0(0)	0(0)	0(1)
1-737	108292148	130510191	926207557	10821991	116277808648908143	994507791666585959	R1-737	0(0)	0(0)	0(0)	0(0)	S1-737	0(0)	0(0)	0(0)	0(0)
1-738	154518733	789066693	28740739	523010937	165913227002655685	30860134039978873	R1-738	0(0)	0(1)	0(0)	0(0)	S1-738	0(0)	0(0)	0(0)	0(0)
1-739	714144664	615837728	644657322	777872993	766806994739064864	692195529557108321	R1-739	0(0)	0(0)	0(0)	0(0)	S1-739	0(0)	0(0)	0(0)	0(0)
1-740	836849419	1030132269	729515795	351679553	898560222600532525	783311620711789633	R1-740	0(0)	0(0)	0(0)	0(0)	S1-740	0(0)	0(0)	0(0)	0(0)
1-741	659549812	714084685	371859284	348469981	708186218869821773	399280866221963997	R1-741	0(0)	0(0)	0(0)	0(0)	S1-741	0(0)	0(0)	0(0)	0(0)
1-742	395831536	757311330	326385724	1001959401	425020876218672994	350454003617279977	R1-742	0(0)	0(0)	0(0)	0(0)	S1-742	0(0)	0(0)	0(0)	0(0)
1-743	509855990	375461813	782136420	309854727	547453701055387573	839812586537484807	R1-743	0(0)	0(0)	0(0)	0(0)	S1-743	0(0)	0(0)	0(0)	0(0)
1-744	192822590	292837733	842852408	447779095	207041679787841893	905005882376491287	R1-744	0(0)	0(0)	0(0)	0(0)	S1-744	0(0)	0(0)	0(0)	0(0)
1-745	591706581	372738113	696980263	584493305	635340103928481857	748376859470113017	R1-745	0(0)	0(0)	0(0)	0(0)	S1-745	0(0)	0(0)	0(0)	0(0)
1-746	399677304	1071179035	744933125	527562839	429150238479541531	799865852923082839	R1-746	0(0)	0(0)	0(0)	0(0)	S1-746	0(0)	0(0)	0(0)	0(0)
1-747	906463848	431792561	996164916	706917941	973308145973371313	1069623934617564725	R1-747	0(0)	0(0)	0(0)	0(0)	S1-747	0(0)	0(0)	0(0)	0(1)
1-748	218938635	79863339	951581174	197733855	235083569368833579	1021752505652555231	R1-748	0(0)	0(0)	0(0)	0(0)	S1-748	0(0)	0(0)	0(0)	0(0)
1-749	402903089	946778695	213826081	666337115	432613898624873031	229594006898048859	R1-749	0(0)	0(0)	0(0)	0(0)	S1-749	0(0)	0(0)	0(1)	0(0)

Table 33 Detailed Results for Seed Index 1-750 to 1-774, Cases R1-750 to R1-774 and S1-750 to S1-774

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-750	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-750	Order 11	Order 12	Order 13	Order 14	Order 15
1-750	547783251	144079006	621945896	1070622117	588177787229468830	667809321870976421	R1-750	0(0)	0(0)	0(0)	0(0)	0(0)	S1-750	0(0)	0(0)	0(0)	0(0)	0(0)
1-751	954666459	103532793	906910004	66757425	1025065305101814009	973787201965564721	R1-751	0(0)	0(0)	0(0)	0(0)	0(1)	S1-751	0(0)	0(0)	0(0)	0(0)	0(0)
1-752	380181891	746700160	669938417	263707267	408217197840809344	719340898100959875	R1-752	0(0)	0(0)	0(0)	0(0)	0(0)	S1-752	0(1)	0(0)	0(0)	0(0)	0(0)
1-753	262584647	443188847	929945557	688586281	281948118267364975	998521439282462249	R1-753	0(1)	0(0)	0(0)	0(0)	0(0)	S1-753	0(0)	0(0)	0(0)	0(0)	0(0)
1-754	283707047	10036689	811069422	524976421	304628122137470417	870879161093882149	R1-754	0(0)	0(0)	0(0)	0(0)	0(0)	S1-754	0(0)	0(0)	0(0)	0(0)	0(0)
1-755	837275763	663789119	885339293	594528511	899018005618400831	950625827919218943	R1-755	0(0)	0(0)	0(0)	0(1)	0(0)	S1-755	0(0)	0(0)	0(1)	0(0)	0(0)
1-756	337522195	362226526	318577791	445980723	362411697662010206	342070298840211507	R1-756	0(0)	0(0)	0(0)	0(0)	0(0)	S1-756	0(0)	0(0)	0(0)	0(0)	0(0)
1-757	558345934	317180578	230854048	222331999	599519381913324194	247877646799635551	R1-757	0(0)	0(0)	0(0)	0(0)	0(0)	S1-757	0(0)	0(0)	0(0)	0(0)	0(0)
1-758	747644837	1070415293	598968435	648463679	802777532054977981	643137460563789119	R1-758	0(0)	0(0)	0(0)	0(0)	0(0)	S1-758	0(0)	0(0)	0(0)	0(0)	0(0)
1-759	75055765	21394949	541754068	253160743	80590514034210309	581704001386900775	R1-759	0(0)	0(0)	0(0)	0(0)	0(0)	S1-759	0(0)	0(0)	0(0)	0(0)	0(0)
1-760	953923300	530497955	530918944	98737369	1024267344628597155	570069875425451225	R1-760	0(0)	0(0)	0(0)	0(0)	0(0)	S1-760	0(1)	0(0)	0(0)	0(0)	0(0)
1-761	321226261	776604679	100380463	1045807109	344914072179444743	107782702481391621	R1-761	0(0)	0(0)	0(1)	0(0)	0(0)	S1-761	0(0)	0(0)	0(0)	0(0)	0(0)
1-762	583682316	376436187	133792193	43362297	626724114994820571	143658273392142329	R1-762	0(0)	0(0)	0(0)	0(0)	0(0)	S1-762	0(0)	0(0)	0(0)	0(0)	0(0)
1-763	789061542	224259002	28174764	763158093	847248379579591610	30252423251287629	R1-763	0(0)	0(0)	0(0)	0(0)	0(0)	S1-763	0(0)	0(0)	0(0)	0(0)	0(0)
1-764	606427138	756653249	498201191	855339585	651146182035872961	534939456398651969	R1-764	0(0)	0(0)	0(0)	0(0)	0(0)	S1-764	0(0)	0(0)	0(0)	0(0)	0(0)
1-765	764427029	473265067	798398599	632121239	820797272906625963	857273968601425815	R1-765	0(0)	0(0)	0(0)	0(0)	0(0)	S1-765	0(0)	0(0)	0(0)	0(0)	0(0)
1-766	307471446	441720183	1001800826	571819525	330144951697677687	1075675446765766149	R1-766	0(0)	0(0)	0(0)	0(0)	0(0)	S1-766	0(0)	0(0)	0(0)	0(0)	0(0)
1-767	953795054	321194026	1039131062	629387421	1024129641325332522	1115758482516324509	R1-767	0(0)	0(0)	0(0)	0(1)	0(0)	S1-767	0(0)	0(0)	0(0)	0(0)	0(0)
1-768	433562730	103269957	756717215	172221965	465534436631889477	812518922858522125	R1-768	0(0)	0(0)	0(0)	0(0)	0(0)	S1-768	0(0)	0(0)	0(0)	0(1)	0(0)
1-769	768453643	288466852	473123522	349898241	825120816582731684	508012513839482369	R1-769	0(0)	0(0)	0(0)	0(0)	0(0)	S1-769	0(0)	0(0)	0(1)	0(0)	0(0)
1-770	689569171	60544905	154303628	971734179	740419259504252809	165682259950271651	R1-770	0(1)	0(0)	0(0)	0(0)	0(0)	S1-770	0(0)	0(0)	0(0)	0(0)	0(1)
1-771	1005772075	842741768	348866604	514528429	1079939543181506568	374592664226174125	R1-771	0(0)	0(0)	0(0)	0(0)	0(0)	S1-771	0(0)	0(0)	0(0)	0(0)	0(0)
1-772	877547641	856213288	2105648	204891941	942259605550450472	2260922529113893	R1-772	0(0)	0(0)	0(0)	0(0)	0(0)	S1-772	0(0)	0(1)	0(0)	0(0)	0(0)
1-773	548373678	155585221	12593484	747498405	588811753404893893	13522151228173221	R1-773	0(0)	0(1)	0(0)	0(0)	0(0)	S1-773	0(0)	0(0)	0(0)	0(0)	0(0)
1-774	451240109	1054068136	731658592	744271173	484515378753686952	785612431863622981	R1-774	0(0)	0(0)	0(0)	0(0)	0(0)	S1-774	0(0)	0(0)	0(0)	0(0)	0(0)

Table 34 Detailed Results for Seed Index 1-775 to 1-799, Cases R1-775 to R1-799 and S1-775 to S1-799

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-775	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-775	Order 11	Order 12	Order 13	Order 14	Order 15
	505453682	501535144	512103706	112693299	972223488559731112	549867167470293043		0(0)	0(0)	0(0)	0(0)	0(0)	S1-775	0(0)	0(0)	0(0)	0(0)	0(0)
1-775	905453682	501535144	512103706	112693299	972223488559731112	549867167470293043	R1-775	0(0)	0(0)	0(0)	0(0)	0(0)	S1-775	0(0)	0(0)	0(0)	0(0)	0(0)
1-776	1039879552	459295070	44019064	170257829	1116562167364077918	47265110240390565	R1-776	0(0)	0(0)	0(0)	0(0)	0(0)	S1-776	0(0)	0(0)	0(0)	0(0)	0(0)
1-777	736597620	820043359	605705289	847027113	790915672872902239	650371102664334249	R1-777	0(0)	0(0)	0(0)	0(0)	0(0)	S1-777	0(0)	0(0)	0(0)	0(0)	0(0)
1-778	480311294	460432134	35427293	672944063	515730325367792390	38039766878146495	R1-778	0(0)	0(0)	0(0)	0(0)	0(0)	S1-778	0(0)	0(0)	0(0)	0(0)	0(0)
1-779	317221923	557397513	501691929	895865509	340614446772205065	538687607826404005	R1-779	0(0)	0(0)	0(0)	0(0)	0(0)	S1-779	0(0)	0(0)	0(0)	0(0)	0(0)
1-780	145292485	1001212432	1006003177	127058319	156006618858605072	1080187686348833167	R1-780	0(0)	0(0)	0(0)	0(0)	0(0)	S1-780	0(0)	0(0)	0(0)	0(0)	0(0)
1-781	40409276	621584782	342337358	546820889	43389130340344206	367581939749081881	R1-781	0(0)	0(0)	0(0)	0(0)	0(0)	S1-781	0(0)	0(0)	0(0)	0(0)	0(1)
1-782	238936243	81812805	833587452	447089231	256555837460340037	895057711621081679	R1-782	0(0)	0(0)	0(0)	0(0)	0(0)	S1-782	0(0)	0(0)	0(0)	0(0)	0(0)
1-783	291380852	366546360	117986298	947223561	312867807871700408	126686823768751113	R1-783	0(0)	0(0)	0(0)	0(0)	0(0)	S1-783	0(0)	0(0)	0(0)	0(0)	0(0)
1-784	464552758	474250987	180975428	38524181	498809726193401579	194320886198424853	R1-784	0(0)	0(0)	0(0)	0(0)	0(0)	S1-784	0(0)	0(0)	0(0)	0(0)	0(0)
1-785	67457526	90442026	531425865	193689869	72431967100209450	570614177799567629	R1-785	0(0)	0(0)	0(0)	0(1)	0(0)	S1-785	0(0)	0(0)	0(0)	0(0)	0(0)
1-786	880940403	819166233	396190403	672816537	945902555971681305	425406206641331609	R1-786	0(0)	0(0)	0(0)	0(0)	0(0)	S1-786	0(1)	0(0)	0(0)	0(1)	0(0)
1-787	134131998	180734151	304229943	242147029	144023136370018503	326684414154383061	R1-787	0(0)	0(0)	0(0)	0(0)	0(0)	S1-787	0(0)	0(0)	0(0)	0(0)	0(0)
1-788	1066246396	444695591	120799192	367117879	1144873350519161895	129707145122924087	R1-788	0(0)	0(0)	0(0)	0(0)	0(0)	S1-788	0(0)	0(0)	0(1)	0(0)	0(0)
1-789	17341716	877043545	952630151	196235465	18620526646173529	1022878836128370889	R1-789	0(0)	0(0)	0(0)	0(0)	0(1)	S1-789	0(0)	0(0)	0(0)	0(0)	0(0)
1-790	700248226	510595759	1039548886	37672633	751885807948599983	1116207117028480697	R1-790	0(0)	0(0)	0(0)	0(0)	0(0)	S1-790	0(0)	0(0)	0(0)	0(0)	0(1)
1-791	684901117	300977614	161394606	493159753	735406974928195022	173296139123361097	R1-791	0(0)	0(0)	0(0)	0(0)	0(0)	S1-791	0(0)	0(0)	0(0)	0(0)	0(0)
1-792	245006856	975236729	953536042	840197969	263074109429182073	1023851529827018577	R1-792	0(0)	0(1)	0(0)	0(0)	0(0)	S1-792	0(0)	0(0)	0(0)	0(0)	0(1)
1-793	107253197	21309082	450515733	793853719	115162243397920410	483737585685970711	R1-793	0(0)	0(0)	0(0)	0(0)	0(1)	S1-793	0(0)	0(0)	0(0)	0(0)	0(0)
1-794	412546238	734123878	943139969	587753555	442968150808581990	1012688831189117011	R1-794	0(0)	0(0)	0(0)	0(0)	0(0)	S1-794	0(0)	0(0)	0(0)	0(0)	0(0)
1-795	107535453	90241213	666333522	556082717	115465313539127485	715470171860706845	R1-795	0(0)	0(0)	0(0)	0(0)	0(0)	S1-795	0(0)	0(0)	0(0)	0(0)	0(0)
1-796	635625510	833874355	466452157	234191845	682497695322204595	500849190100106213	R1-796	0(0)	0(0)	0(0)	0(0)	0(0)	S1-796	0(0)	0(0)	0(0)	0(0)	0(0)
1-797	735982624	435856576	44483549	570662421	790255325561922752	47763847611915797	R1-797	0(0)	0(1)	0(0)	0(0)	0(0)	S1-797	0(0)	0(0)	0(0)	0(0)	0(0)
1-798	955110433	476429389	890438901	435981739	1025542018927279181	956101490156277163	R1-798	0(0)	0(0)	0(0)	0(0)	0(0)	S1-798	0(0)	0(0)	0(0)	0(0)	0(0)
1-799	1057788767	154740164	625350495	418829725	1135792040240031172	671464981559432605	R1-799	0(0)	0(1)	0(0)	0(0)	0(0)	S1-799	0(0)	0(0)	0(0)	0(0)	0(0)

Table 35 Detailed Results for Seed Index 1-800 to 1-824, Cases R1-800 to R1-824 and S1-800 to S1-824

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15
1-800	116722943	125752538	263302893	852388491	125330305845220570	282719329446685323	R1-800	0(0)	0(0)	0(0)	0(0)	S1-800	0(0)	0(0)	0(0)	0(0)
1-801	205170667	848550959	1065371668	660267107	220300327064427567	1143934118696509539	R1-801	0(0)	0(0)	0(1)	0(0)	S1-801	0(0)	0(0)	0(0)	0(0)
1-802	867104080	987759382	841141761	880274559	931045917444801302	903169089578986623	R1-802	0(0)	0(0)	0(0)	0(0)	S1-802	0(0)	0(0)	0(0)	0(0)
1-803	843228374	491007711	473062975	715424227	905409572838321887	507947502358790627	R1-803	0(0)	0(0)	0(1)	0(0)	S1-803	0(0)	0(0)	0(0)	0(0)
1-804	386057162	355410979	469515475	92731653	414525721649554467	504138402615458053	R1-804	0(0)	0(1)	0(0)	0(0)	S1-804	0(0)	0(0)	0(0)	0(0)
1-805	278599305	394349299	835208090	307093727	299143726310181619	896797858283249887	R1-805	0(0)	0(0)	0(0)	0(0)	S1-805	0(0)	0(0)	0(0)	0(0)
1-806	1024205606	68110516	963167284	903201	1099732395605575860	1034192996340189217	R1-806	0(0)	0(0)	0(0)	0(0)	S1-806	0(0)	0(0)	0(0)	0(0)
1-807	530092955	597431910	585811706	371791679	56918297698861830	629010530092783423	R1-807	0(0)	0(0)	0(0)	0(0)	S1-807	0(0)	0(0)	0(0)	0(0)
1-808	914195465	1016588468	204016221	182134527	981609907098216628	219060749444261631	R1-808	0(0)	0(0)	0(0)	0(0)	S1-808	0(0)	0(0)	0(1)	0(0)
1-809	493096115	593195374	1029511496	106242343	529457922520609134	1105429551650251047	R1-809	0(0)	0(0)	0(0)	0(0)	S1-809	0(0)	0(0)	0(0)	0(0)
1-810	197629962	782645552	298385971	111475147	212203556657576240	320389496869026251	R1-810	0(0)	0(0)	0(0)	0(0)	S1-810	0(0)	0(0)	0(0)	0(0)
1-811	684083945	259382130	950814881	648248981	734529543132797810	1020929705259531925	R1-811	0(0)	0(0)	0(0)	0(0)	S1-811	0(0)	0(0)	0(0)	0(0)
1-812	344870269	299349600	947000322	1072887165	370301631978780256	1016833854145754493	R1-812	0(0)	0(0)	0(0)	0(0)	S1-812	0(0)	0(0)	0(0)	0(0)
1-813	151933085	580129634	2476648	691277093	163136908393976674	2659281232203045	R1-813	0(0)	0(0)	0(0)	0(1)	S1-813	0(0)	0(0)	0(0)	0(0)
1-814	126300501	8600838756	817312835	772827029	135614131176692580	877582975004338069	R1-814	0(0)	0(0)	0(0)	0(0)	S1-814	0(0)	0(0)	0(0)	0(0)
1-815	613385561	115847047	870589822	43240999	658617731199250311	934788703473356327	R1-815	0(0)	0(0)	0(0)	0(0)	S1-815	0(0)	0(0)	0(1)	0(0)
1-816	960241894	979203972	875959262	441865917	1031051883723978628	940554096171439805	R1-816	0(0)	0(1)	0(1)	0(0)	S1-816	0(0)	0(1)	0(0)	0(0)
1-817	442161118	876644537	337673281	483193849	474766886219843769	362573925140198393	R1-817	0(0)	0(0)	0(0)	0(0)	S1-817	0(0)	0(0)	0(0)	0(1)
1-818	297356324	251464453	615459280	243360717	319283921961159429	660844370148287437	R1-818	0(0)	0(0)	0(0)	0(0)	S1-818	0(0)	0(0)	0(0)	0(0)
1-819	213930437	162931782	307866253	368916813	229706057796428870	330568872413182285	R1-819	0(0)	0(0)	0(0)	0(0)	S1-819	0(0)	0(0)	0(0)	0(0)
1-820	51186018	588078379	604915210	773581265	54960568918695211	649522761724324305	R1-820	0(0)	0(0)	0(0)	0(0)	S1-820	0(0)	0(0)	0(0)	0(0)
1-821	885700990	291962890	926660878	141747469	951014196813168650	994994541514908941	R1-821	0(0)	0(0)	0(0)	0(0)	S1-821	0(0)	0(0)	0(0)	0(0)
1-822	560446996	1002394039	1051565405	896308093	601775380742754743	1129109756916306813	R1-822	0(1)	0(0)	0(0)	0(0)	S1-822	0(1)	0(0)	0(0)	0(0)
1-823	308915642	1050562350	139172966	132780677	331695645953773358	149435834497110661	R1-823	0(0)	0(0)	0(0)	0(0)	S1-823	0(0)	0(0)	0(0)	0(0)
1-824	538532217	10142001	418549969	686033341	578244564974485809	449414607835236797	R1-824	0(0)	0(0)	0(0)	0(0)	S1-824	0(0)	0(0)	0(0)	0(0)

Table 36 Detailed Results for Seed Index 1-825 to 1-849, Cases R1-825 to R1-849 and S1-825 to S1-849

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15
1-825	81974885	273823883	129798358	342758579	88019862815914123	139369926013883571	R1-825	0(0)	0(0)	0(0)	0(0)	S1-825	0(0)	0(0)	0(0)	0(0)
1-826	1026810886	559406214	336039522	994097113	1102529794196102278	360819690282465241	R1-826	0(1)	0(0)	0(0)	0(0)	S1-826	0(0)	0(0)	0(0)	0(0)
1-827	417863268	943738555	262356317	1034120073	448677268508659387	281702951387622281	R1-827	0(0)	0(0)	0(0)	0(0)	S1-827	0(0)	0(0)	0(0)	0(0)
1-828	763165009	792054218	559616128	676154955	819442189568690634	600883242694692427	R1-828	0(0)	0(0)	0(0)	0(0)	S1-828	0(0)	0(0)	0(0)	0(1)
1-829	1052671554	178814411	300528552	113637887	1130297474643688907	322690075702196735	R1-829	0(0)	0(0)	0(0)	0(0)	S1-829	0(0)	0(0)	0(0)	0(0)
1-830	640085485	99353492	207202959	754971965	687286556279178132	222482483889829181	R1-830	0(0)	0(0)	0(1)	0(0)	S1-830	0(0)	0(0)	0(0)	0(0)
1-831	434097518	352341703	847212037	818532585	466108661123534535	909686998741668073	R1-831	0(0)	0(0)	0(0)	0(0)	S1-831	0(0)	0(0)	0(0)	0(0)
1-832	837683913	172604569	53995510	265589241	899456252852681881	57977237660799481	R1-832	0(0)	0(0)	0(0)	0(0)	S1-832	0(0)	0(0)	0(0)	0(0)
1-833	441841100	45513418	785894522	171043021	474423268677679818	843847817694931149	R1-833	0(0)	0(0)	0(0)	0(0)	S1-833	0(0)	0(0)	0(0)	0(0)
1-834	815601644	489194457	816644067	324622095	875745597375153113	876864890383980303	R1-834	0(0)	0(0)	0(0)	0(0)	S1-834	0(0)	0(0)	0(0)	0(0)
1-835	826244842	369577664	7787221	489765135	887173644089249472	8361465370196239	R1-835	0(0)	0(0)	0(0)	0(0)	S1-835	0(0)	0(0)	0(0)	0(0)
1-836	718327530	975877422	557037621	746470827	771298313267492142	598114591955631531	R1-836	0(0)	0(0)	0(1)	0(0)	S1-836	0(0)	0(0)	0(0)	0(0)
1-837	619544682	482387266	29927177	221507045	665231037382567234	32134061840657893	R1-837	0(0)	0(0)	0(0)	0(0)	S1-837	0(0)	0(0)	0(0)	0(0)
1-838	619110030	211937562	693725022	173306179	664764333080832282	744881570650026307	R1-838	0(0)	0(0)	0(0)	0(0)	S1-838	0(0)	0(1)	0(0)	0(0)
1-839	1030847102	693720902	156480630	508354049	1106863648260314950	168019797585223169	R1-839	0(0)	0(0)	0(0)	0(0)	S1-839	0(0)	0(0)	0(0)	0(0)
1-840	5833435	669041913	663560917	762307259	6263603806127353	712493110116999867	R1-840	0(0)	0(0)	0(0)	0(0)	S1-840	0(1)	0(0)	0(1)	0(0)
1-841	40270762	563069135	995538347	39216609	43240402006819023	1068951160608941537	R1-841	0(0)	0(0)	0(0)	0(0)	S1-841	0(1)	0(0)	0(0)	0(0)
1-842	396297160	725495116	217176297	467169663	425520836149914956	233191273737515391	R1-842	0(0)	0(1)	0(0)	0(0)	S1-842	0(0)	0(0)	0(0)	0(0)
1-843	264224278	57818794	915181355	1030754109	283708658262621866	982668498439245629	R1-843	0(0)	0(0)	0(0)	0(0)	S1-843	0(0)	0(1)	0(0)	0(0)
1-844	282301629	338754830	452267442	342787241	303119066379386126	485618468451681449	R1-844	0(0)	0(0)	0(0)	0(0)	S1-844	0(0)	0(0)	0(0)	0(0)
1-845	686456437	1008821155	525915359	746732399	737076987769742243	564697317589007215	R1-845	0(0)	0(0)	0(0)	0(0)	S1-845	0(0)	0(0)	0(0)	0(0)
1-846	671812833	292641720	503625438	1048000439	721353536984669112	540763697458919351	R1-846	0(0)	0(0)	0(0)	0(0)	S1-846	0(0)	0(0)	0(0)	0(1)
1-847	38122879	262144003	994387943	73839719	40934129895735299	1067715923754267751	R1-847	0(0)	0(0)	0(0)	0(0)	S1-847	0(0)	0(0)	0(0)	0(0)
1-848	631757803	778165289	138650071	921796453	678344776497617961	148874381055065957	R1-848	0(0)	0(0)	0(0)	0(0)	S1-848	0(0)	0(0)	0(0)	0(0)
1-849	747184893	17743982	289247579	1039595115	802283669892808814	310577224102639211	R1-849	0(0)	0(1)	0(0)	0(1)	S1-849	0(0)	0(0)	0(1)	0(1)

Table 37 Detailed Results for Seed Index 1-850 to 1-874, Cases R1-850 to R1-874 and S1-850 to S1-874

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-850	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-850	Order 11	Order 12	Order 13	Order 14	Order 15
								0(1)	0(0)	0(0)	0(0)	0(0)		0(0)	0(0)	0(0)	0(0)	0(0)
1-850	140160655	101571554	771516969	337613775	150496357454306274	828410037878625231	R1-850	0(1)	0(0)	0(0)	0(0)	0(0)	S1-850	0(0)	0(0)	0(0)	0(0)	0(0)
1-851	172684896	127404490	391185336	280678413	185418995335694794	420032056479371277	R1-851	0(0)	0(0)	0(0)	0(0)	0(0)	S1-851	0(0)	0(0)	0(0)	0(0)	0(0)
1-852	652599062	959011341	125170010	121481095	700722908131580429	134400274968979335	R1-852	0(0)	0(0)	0(0)	0(0)	0(0)	S1-852	0(0)	0(0)	0(0)	0(0)	0(0)
1-853	844767575	880468961	452074948	771162763	907062277717025761	485411780021387915	R1-853	0(0)	0(0)	0(0)	0(0)	0(0)	S1-853	0(0)	0(0)	0(0)	0(0)	0(0)
1-854	400336964	303644923	147683413	753472709	429858542243627259	158573858002638021	R1-854	0(0)	0(0)	0(0)	0(0)	0(0)	S1-854	0(0)	0(0)	0(0)	0(0)	0(1)
1-855	131718147	632942761	696896139	181383883	141431284046622889	748286531609801419	R1-855	0(0)	0(0)	0(0)	0(0)	0(0)	S1-855	0(0)	0(0)	0(0)	0(0)	0(0)
1-856	65266850	539426718	522932957	1034733469	70079747105161118	561494988113627037	R1-856	0(0)	0(0)	0(0)	0(0)	0(0)	S1-856	0(0)	0(0)	0(0)	0(0)	0(0)
1-857	522642734	711335577	469301692	32308619	561183363216842393	503908854806674827	R1-857	0(0)	0(0)	0(0)	0(0)	0(0)	S1-857	0(0)	0(0)	0(0)	0(0)	0(0)
1-858	738178533	924159236	634919094	415614697	792613165385223428	681739186499602153	R1-858	0(0)	0(0)	0(0)	0(0)	0(0)	S1-858	0(0)	0(0)	0(0)	0(0)	0(0)
1-859	534839848	742777237	944148077	411686627	574279914682179989	1013771278735759075	R1-859	0(0)	0(0)	0(0)	0(0)	0(2)	S1-859	0(0)	0(0)	0(0)	0(0)	0(0)
1-860	744886564	337121805	202815612	526351293	799815858239574541	217771605690907581	R1-860	0(0)	0(0)	0(0)	0(0)	0(0)	S1-860	0(0)	0(0)	0(0)	0(0)	0(0)
1-861	267748342	382111906	184634194	949754873	287492593494167714	198249457188084729	R1-861	0(0)	0(0)	0(0)	0(0)	0(0)	S1-861	0(0)	0(0)	0(0)	0(0)	0(0)
1-862	826647838	966942814	113591802	774256881	887606358346719326	121968269445183729	R1-862	0(0)	0(0)	0(0)	0(0)	0(0)	S1-862	0(0)	0(0)	0(0)	0(0)	0(0)
1-863	664078927	897710823	433086895	219359421	713049319254653671	465023512807155901	R1-863	0(0)	0(0)	0(0)	0(0)	0(0)	S1-863	0(0)	0(0)	0(0)	0(0)	0(0)
1-864	989136297	80152778	140787304	947042233	1062077011805538506	151169217540044729	R1-864	0(0)	0(0)	0(0)	0(0)	0(0)	S1-864	0(0)	0(0)	0(0)	0(0)	0(0)
1-865	838482564	418854294	673670877	185718027	900313798080411030	723348596431377675	R1-865	0(0)	0(0)	0(0)	0(0)	0(0)	S1-865	0(1)	0(0)	0(0)	0(0)	0(0)
1-866	88463662	537706408	824188184	289818605	94987134331305896	884965324297226221	R1-866	0(1)	0(0)	0(0)	0(0)	0(0)	S1-866	0(0)	0(0)	0(0)	0(0)	0(0)
1-867	320813002	255496646	543357640	325438421	344470338185892294	583425823783373781	R1-867	0(1)	0(0)	0(0)	0(0)	0(0)	S1-867	0(0)	0(0)	0(0)	0(0)	0(0)
1-868	227128100	764392194	436528920	138075453	243876941140046594	468719358927625533	R1-868	0(0)	0(0)	0(0)	0(0)	0(0)	S1-868	0(0)	0(0)	0(0)	0(0)	0(0)
1-869	743168506	942349816	510817167	22047141	797971108114144760	548485756647139749	R1-869	0(0)	0(0)	0(0)	0(0)	0(0)	S1-869	0(0)	0(1)	0(0)	0(0)	0(0)
1-870	636341639	589395234	806983100	549963273	683266632736404770	866491506281137673	R1-870	0(0)	0(0)	0(0)	0(0)	0(0)	S1-870	0(0)	0(0)	0(0)	0(0)	0(0)
1-871	195466637	19443151	425642996	1063400301	209880703362969039	457030687961265005	R1-871	0(0)	0(0)	0(0)	0(0)	0(0)	S1-871	0(0)	0(0)	0(0)	0(0)	0(0)
1-872	823803640	889091256	118037739	284082905	884552423920530616	126742057458778841	R1-872	0(0)	0(0)	0(0)	0(0)	0(0)	S1-872	0(0)	0(0)	0(0)	0(0)	0(0)
1-873	362962843	266540820	38615743	953032173	389728385353586452	41463339276967405	R1-873	0(0)	0(0)	0(0)	0(0)	0(0)	S1-873	0(0)	0(0)	0(0)	0(0)	0(0)
1-874	792770133	39908801	781191199	574116997	851230448660051393	838797663481123973	R1-874	0(0)	0(0)	0(0)	0(0)	0(0)	S1-874	0(0)	0(0)	0(0)	0(0)	0(0)

Table 38 Detailed Results for Seed Index 1-875 to 1-899, Cases R1-875 to R1-899 and S1-875 to S1-899

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-875	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-875	Order 11	Order 12	Order 13	Order 14	Order 15
	335202830	476690552	360930186	415835469	359921298570852472	387545836668134733		0(0)	0(0)	0(0)	0(0)	0(0)		0(0)	0(1)	0(0)	0(0)	0(0)
1-875	335202830	476690552	360930186	415835469	359921298570852472	387545836668134733	R1-875	0(0)	0(0)	0(0)	0(0)	0(0)	S1-875	0(0)	0(1)	0(0)	0(0)	0(0)
1-876	800032298	853756971	311193223	626186913	859028139767188523	334141179506645665	R1-876	0(0)	0(0)	0(0)	0(0)	0(0)	S1-876	0(0)	0(0)	0(0)	0(0)	0(0)
1-877	207842914	915737610	29519121	329159091	223169630499572746	31695915154575795	R1-877	0(0)	0(0)	0(0)	0(0)	0(1)	S1-877	0(0)	0(0)	0(0)	0(0)	0(1)
1-878	494052511	864908323	837810521	363969753	530484845177828387	899592197348900057	R1-878	0(0)	0(0)	0(0)	0(0)	0(0)	S1-878	0(0)	0(0)	0(0)	0(0)	0(0)
1-879	293639794	865232732	594327341	1034775511	315293328873776988	638154124213185495	R1-879	0(0)	0(1)	0(0)	0(0)	0(0)	S1-879	0(0)	0(0)	0(0)	0(0)	0(0)
1-880	499712733	459996563	587743601	613533819	536562461867441555	631084886795602043	R1-880	0(0)	0(0)	0(0)	0(0)	0(0)	S1-880	0(0)	0(0)	0(0)	0(1)	0(0)
1-881	272679335	848475307	338896384	779628391	292787207378482347	363887222282792807	R1-881	0(0)	0(0)	0(0)	0(0)	0(0)	S1-881	0(0)	0(0)	0(0)	0(0)	0(1)
1-882	471922814	430511217	44498465	621856251	506723263522083953	47779863596156411	R1-882	0(0)	0(1)	0(0)	0(1)	0(0)	S1-882	0(0)	0(0)	0(0)	0(0)	0(1)
1-883	977530976	535719192	625305296	759104015	1049615893722459416	671416449843003919	R1-883	0(0)	0(0)	0(0)	0(0)	0(0)	S1-883	0(0)	0(0)	0(0)	0(0)	0(0)
1-884	889861654	1033165271	589967213	1017717685	955481676506782167	633472472404534197	R1-884	0(0)	0(0)	0(0)	0(0)	0(0)	S1-884	0(0)	0(0)	0(0)	0(0)	0(1)
1-885	10215973	1028631217	413586278	815620275	10969318511585969	444084885336711347	R1-885	0(0)	0(0)	0(0)	0(0)	0(0)	S1-885	0(0)	0(0)	0(0)	0(0)	0(0)
1-886	702852731	252903839	736959232	900763179	754682373640225183	791303950882082347	R1-886	0(0)	0(0)	0(0)	0(0)	0(0)	S1-886	0(0)	0(0)	0(0)	0(0)	0(0)
1-887	235216359	931771004	436625087	633502371	252561643279069820	468822617953041059	R1-887	0(0)	0(0)	0(0)	0(1)	0(0)	S1-887	0(0)	0(0)	0(0)	0(0)	0(0)
1-888	389983083	86405914	767823576	1008871575	418741146955969306	824444288013314199	R1-888	0(0)	0(0)	0(0)	0(0)	0(1)	S1-888	0(0)	0(0)	0(0)	0(0)	0(0)
1-889	511569124	592839651	972301288	150264135	549293164898681827	1044000558604933447	R1-889	0(1)	0(0)	0(0)	0(0)	0(0)	S1-889	0(0)	0(1)	0(0)	0(1)	0(0)
1-890	242547803	423121467	960232221	1031638207	260433720823534139	1031041497471749311	R1-890	0(0)	0(0)	0(0)	0(0)	0(0)	S1-890	0(0)	0(0)	0(0)	0(0)	0(0)
1-891	48111845	676641014	867920876	757622051	51659700882946294	931922945241539875	R1-891	0(0)	0(0)	0(0)	0(0)	0(0)	S1-891	0(0)	0(0)	0(0)	0(1)	0(1)
1-892	436609066	938276421	1027916170	357111891	468805415840052805	1103716583652005971	R1-892	0(0)	0(0)	0(0)	0(0)	0(0)	S1-892	0(0)	0(0)	0(0)	0(0)	0(0)
1-893	1044302997	417339049	214635794	734185717	1121311805224785577	230463429679433973	R1-893	0(1)	0(0)	0(0)	0(0)	0(0)	S1-893	0(0)	0(0)	0(0)	0(0)	0(0)
1-894	509804383	566388297	629152547	220361887	547398288652002889	675547403610387615	R1-894	0(0)	0(0)	0(0)	0(0)	0(0)	S1-894	0(0)	0(0)	0(0)	0(0)	0(0)
1-895	38251073	12082719	334734385	790667975	41071776905059871	359418309896086215	R1-895	0(0)	0(0)	0(0)	0(0)	0(0)	S1-895	0(0)	0(0)	0(0)	0(0)	0(0)
1-896	144309426	1049381769	393381655	757293641	154951067343014793	422390336525132361	R1-896	0(0)	0(0)	0(0)	0(0)	0(0)	S1-896	0(0)	0(0)	0(0)	0(0)	0(0)
1-897	1027923829	833491265	1005319285	22176565	1103724807917015361	1079453362800452405	R1-897	0(0)	0(0)	0(0)	0(0)	0(0)	S1-897	0(0)	0(0)	0(0)	0(0)	0(0)
1-898	368760875	491109373	705303721	130549069	395953975033445373	757314103991076173	R1-898	0(0)	0(0)	0(0)	0(0)	0(0)	S1-898	0(0)	0(0)	0(0)	0(0)	0(0)
1-899	917277472	309161569	833014808	903584085	984919186208550497	894442840264513877	R1-899	0(0)	0(0)	0(0)	0(0)	0(0)	S1-899	0(0)	0(0)	0(0)	0(0)	0(1)

Table 39 Detailed Results for Seed Index 1-900 to 1-924, Cases R1-900 to R1-924 and S1-900 to S1-924

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-900	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-900	Order 11	Order 12	Order 13	Order 14	Order 15
								0(0)	0(0)	0(0)	0(0)	0(0)		0(0)	0(0)	0(0)	0(0)	0(0)
1-900	586481604	298588758	256923162	1062797295	629729827519994454	275869145656524783	R1-900	0(0)	0(0)	0(0)	0(0)	0(0)	S1-900	0(0)	0(0)	0(0)	0(0)	0(0)
1-901	470339777	482685648	367048392	808513555	505023490538418896	394115210730860563	R1-901	0(0)	0(0)	0(0)	0(0)	0(0)	S1-901	0(0)	0(0)	0(0)	0(0)	0(0)
1-902	66531410	1072172471	126895479	927190943	71437558598864311	136252984006004639	R1-902	0(0)	0(0)	0(1)	0(0)	0(0)	S1-902	0(0)	0(0)	0(0)	0(0)	0(0)
1-903	651271827	939219537	730654943	944629807	699297800382011985	784534772156065839	R1-903	0(0)	0(0)	0(0)	0(0)	0(0)	S1-903	0(0)	0(0)	0(0)	0(0)	0(0)
1-904	42283215	549370016	700131852	532937593	45401256948054176	751760852339915641	R1-904	0(0)	0(0)	0(0)	0(0)	0(0)	S1-904	0(0)	0(0)	0(1)	0(0)	0(0)
1-905	56750339	104289440	943348739	1011249385	60935212614767776	1012912996693209321	R1-905	0(0)	0(0)	0(0)	0(0)	0(0)	S1-905	0(1)	0(0)	0(0)	0(0)	0(0)
1-906	49937173	257113704	725884181	698879093	53619631479537256	779412205218565237	R1-906	0(0)	0(0)	0(0)	0(0)	0(0)	S1-906	0(0)	0(0)	0(0)	0(0)	0(0)
1-907	143822189	563505057	203514620	789910099	154427900112037793	218522160079376979	R1-907	0(0)	0(1)	0(0)	0(0)	0(0)	S1-907	0(0)	0(1)	0(0)	0(0)	0(0)
1-908	745989040	575692000	671778909	997024501	800999633069300960	721317112071414517	R1-908	0(0)	0(0)	0(0)	0(0)	0(0)	S1-908	0(0)	0(0)	0(0)	0(0)	0(0)
1-909	247059209	436025395	120848542	788703789	265277806143682611	129760134703524397	R1-909	0(0)	0(0)	0(0)	0(0)	0(1)	S1-909	0(0)	0(0)	0(0)	0(0)	0(0)
1-910	147494384	217902587	319658911	416370169	158370889123819003	343231142571363833	R1-910	0(0)	0(0)	0(0)	0(0)	0(0)	S1-910	0(0)	0(0)	0(0)	0(0)	0(0)
1-911	361854147	303695137	901727192	640797951	388537932125439265	96822200529276159	R1-911	0(0)	0(0)	0(0)	0(0)	0(0)	S1-911	0(0)	0(0)	0(2)	0(0)	0(0)
1-912	985352570	525349139	745125959	1037400185	1058014266320236819	800072907363809401	R1-912	0(0)	0(0)	0(0)	0(0)	0(0)	S1-912	0(0)	0(0)	0(0)	0(0)	0(0)
1-913	213064770	191354067	604499938	195427165	228776554961294547	649076866231434077	R1-913	0(0)	0(0)	0(0)	0(0)	0(0)	S1-913	0(2)	0(1)	0(0)	0(0)	0(0)
1-914	833423452	302639495	741244607	500681829	894881617817495943	795905336851024997	R1-914	0(0)	0(0)	0(0)	0(1)	0(0)	S1-914	0(0)	0(0)	0(0)	0(0)	0(0)
1-915	1057988779	150785496	169785033	986157673	1136006801485778392	182305292007477865	R1-915	0(0)	0(0)	0(0)	0(0)	0(1)	S1-915	0(0)	0(0)	0(0)	0(0)	0(0)
1-916	417465661	245831387	269317669	564688351	448250340545337051	289177645712176607	R1-916	0(0)	0(0)	0(1)	0(0)	0(0)	S1-916	0(0)	0(0)	0(0)	0(0)	0(0)
1-917	263267937	672195183	611828215	407980201	282681795547292271	656945543956744361	R1-917	0(0)	0(1)	0(0)	0(0)	0(0)	S1-917	0(0)	0(0)	0(0)	0(1)	0(0)
1-918	456394030	258197929	109461187	768748103	490049358493108649	117533055355333191	R1-918	0(1)	0(0)	0(0)	0(0)	0(0)	S1-918	0(0)	0(0)	0(0)	0(0)	0(0)
1-919	196895363	228749596	667484725	721721771	211414786433511708	716706266835360171	R1-919	0(0)	0(0)	0(0)	0(0)	0(0)	S1-919	0(0)	0(0)	0(0)	0(1)	0(0)
1-920	708907949	965692139	616133020	43310589	761184115173051115	661567792764739069	R1-920	0(0)	0(0)	0(0)	0(0)	0(0)	S1-920	0(0)	0(0)	0(1)	0(0)	0(0)
1-921	975201220	577984516	173189523	17266563	1047114337307809796	185960834340976515	R1-921	0(0)	0(0)	0(0)	0(0)	0(0)	S1-921	0(0)	0(0)	0(0)	0(0)	0(0)
1-922	564116948	902894109	239690488	442635873	605715961597727261	257365702223205985	R1-922	0(0)	0(0)	0(0)	0(0)	0(0)	S1-922	0(1)	0(0)	0(0)	0(0)	0(0)
1-923	892440736	369643672	462396421	371129097	958250944054186136	496494376866741001	R1-923	0(0)	0(0)	0(0)	0(1)	0(0)	S1-923	0(0)	0(0)	0(0)	0(0)	0(0)
1-924	15775948	1070286180	653702829	73443451	16939296251135332	701908068037863547	R1-924	0(0)	0(0)	0(0)	0(0)	0(0)	S1-924	0(0)	0(0)	0(0)	0(0)	0(0)

Table 40 Detailed Results for Seed Index 1-925 to 1-949, Cases R1-925 to R1-949 and S1-925 to S1-949

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case 11	Order 12	Order 13	Order 14	Order 15	Case 11	Order 12	Order 13	Order 14	Order 15	
1-925	126178406	814898164	1047264412	729158023	135483032622750708	1124491600680325511	R1-925	0(0)	0(0)	0(1)	0(0)	S1-925	0(0)	0(0)	0(0)	0(0)	
1-926	564585877	557795317	878190804	482385031	606219469932414965	942950196189371527	R1-926	0(0)	0(0)	0(0)	0(0)	S1-926	0(0)	0(0)	0(0)	0(0)	
1-927	66390517	185444278	599359958	673541927	71286275005327286	643557855209025319	R1-927	0(0)	0(0)	0(0)	0(0)	S1-927	0(0)	0(0)	0(0)	0(0)	
1-928	1033283761	74618421	364767147	404929521	1109479990320338485	391665742159985649	R1-928	0(0)	0(0)	0(0)	0(0)	S1-928	0(0)	0(0)	0(0)	0(0)	
1-929	717835640	443550536	400743931	265350179	770770149869357896	430295519694220323	R1-929	0(0)	0(0)	0(0)	0(0)	S1-929	0(0)	0(0)	0(0)	0(0)	
1-930	1011800612	86520563	838369256	671318679	1086412634739716851	900192134794281623	R1-930	0(0)	0(0)	0(0)	0(0)	S1-930	0(0)	0(0)	0(0)	0(0)	
1-931	264927396	309332256	215539400	588222799	284463625717942560	231433669088088399	R1-931	0(0)	0(0)	0(0)	0(0)	S1-931	0(0)	0(0)	0(0)	0(0)	
1-932	852353638	481496115	568362926	47634123	915207750440651827	610275044904851147	R1-932	0(0)	0(0)	0(0)	0(0)	S1-932	0(0)	0(0)	0(0)	0(0)	
1-933	386510039	403330211	81752866	930236679	415011994673501347	87781472386304263	R1-933	0(0)	0(0)	0(0)	0(1)	0(0)	S1-933	0(0)	0(0)	0(0)	0(0)
1-934	155191944	569898736	962033899	875080993	166636081590564592	1032976034337172769	R1-934	0(0)	0(0)	0(0)	0(0)	0(0)	S1-934	0(0)	0(0)	0(0)	0(0)
1-935	977996361	260859160	524157455	656180575	1050115596786361624	562809782451078495	R1-935	0(0)	0(0)	0(0)	0(0)	0(0)	S1-935	0(0)	0(0)	0(0)	0(0)
1-936	656164696	184553893	990439142	260814949	704551477711999397	1063475931152889957	R1-936	0(0)	0(0)	0(1)	0(0)	0(0)	S1-936	0(0)	0(0)	0(0)	0(0)
1-937	328082128	811935661	963540692	107054835	352275503352457133	1034593940233357043	R1-937	0(0)	0(0)	0(0)	0(0)	0(0)	S1-937	0(0)	0(0)	0(0)	0(0)
1-938	106496841	357681953	106111240	707552967	114350112663259937	113936077092054727	R1-938	0(0)	0(0)	0(0)	0(0)	0(0)	S1-938	0(0)	0(0)	0(0)	0(0)
1-939	541753351	620289211	1060967513	171462469	581703231881141435	1139205192784826181	R1-939	0(0)	0(0)	0(0)	0(1)	0(0)	S1-939	0(0)	0(0)	0(0)	0(1)
1-940	367974186	1005938102	842090306	752579271	395109274666493366	904187581889737415	R1-940	0(0)	0(0)	0(0)	0(0)	0(1)	S1-940	0(0)	0(0)	0(0)	0(0)
1-941	906540641	727754201	928675190	34326447	973390602125223385	997157392448473007	R1-941	0(1)	0(0)	0(0)	0(0)	0(0)	S1-941	0(0)	0(0)	0(0)	0(0)
1-942	441942669	191191788	699961356	594261911	474532327706680044	751577783715215255	R1-942	0(0)	0(0)	0(0)	0(0)	0(0)	S1-942	0(0)	0(0)	0(0)	0(0)
1-943	742800355	656543400	500232120	652878219	797575808702090920	537120149605065099	R1-943	0(0)	0(0)	0(0)	0(0)	0(0)	S1-943	0(0)	0(0)	0(0)	0(0)
1-944	573927266	449811765	112752109	474323877	616249709887984949	121066655651830693	R1-944	0(0)	0(0)	0(0)	0(0)	0(0)	S1-944	0(0)	0(0)	0(0)	0(0)
1-945	595910404	477201809	499197329	788931575	639853924608738705	536009051365319671	R1-945	0(1)	0(0)	0(0)	0(0)	0(0)	S1-945	0(0)	0(0)	0(1)	0(0)
1-946	192857298	227752802	495280444	253070069	207078947153984354	531803327585159925	R1-946	0(0)	0(0)	0(0)	0(0)	0(0)	S1-946	0(0)	0(0)	0(0)	0(0)
1-947	162236376	401503723	959022172	528577389	174199982686893547	1029742216748299117	R1-947	0(0)	0(0)	0(0)	0(0)	0(0)	S1-947	0(0)	0(0)	0(0)	0(0)
1-948	329389654	338651399	614263034	426787667	353679448231340295	659559910969721683	R1-948	0(0)	0(0)	0(0)	0(0)	0(0)	S1-948	0(0)	0(0)	0(0)	0(0)
1-949	259022421	323179123	195145844	427299869	278123207104615027	209536254909879325	R1-949	0(0)	0(0)	0(0)	0(0)	0(0)	S1-949	0(0)	0(0)	0(0)	0(0)

Table 41 Detailed Results for Seed Index 1-950 to 1-974, Cases R1-950 to R1-974 and S1-950 to S1-974

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case	Order	Order	Order	Order	Order	Case	Order	Order	Order	Order	Order
								11	12	13	14	15		11	12	13	14	15
1-950	1.006E+09	443478385	75917972	780568543	1080656026005336433	81516302510229471	R1-950	0(0)	0(0)	0(0)	0(0)	0(0)	S1-950	0(0)	0(0)	0(0)	0(0)	0(0)
1-951	1.025E+09	952240099	877885454	733383521	1100101858166441955	942622329374411617	R1-951	0(0)	0(0)	0(0)	0(0)	0(0)	S1-951	0(0)	0(0)	0(0)	0(0)	0(0)
1-952	573055052	143415471	98812431	538417639	615313176930310319	106099040434231783	R1-952	0(0)	0(0)	0(0)	0(0)	0(0)	S1-952	0(0)	0(0)	0(0)	0(0)	0(0)
1-953	907493224	703696732	862836101	75587363	974413430309097308	926463208976375587	R1-953	0(0)	0(0)	0(0)	0(0)	0(0)	S1-953	0(0)	0(0)	0(0)	0(0)	0(0)
1-954	976942709	816233298	645654324	964065943	1048984247121394514	693266052489312919	R1-954	0(0)	0(0)	0(0)	0(0)	0(0)	S1-954	0(0)	0(0)	0(0)	0(0)	0(0)
1-955	419362709	739714088	441554991	373458931	450287280818955304	474116061806102515	R1-955	0(0)	0(0)	0(0)	0(0)	0(0)	S1-955	0(0)	0(1)	0(0)	0(0)	0(0)
1-956	802670695	716458339	323775527	676628643	861861096837106019	347651325604169891	R1-956	0(0)	0(0)	0(0)	0(0)	0(0)	S1-956	0(0)	0(0)	0(0)	0(0)	0(0)
1-957	1.024E+09	132050803	183647245	308488071	1099574071363825523	197189728127362951	R1-957	0(0)	0(0)	0(0)	0(0)	0(0)	S1-957	0(0)	0(0)	0(0)	0(0)	0(0)
1-958	990071996	61235200	473158	32190655	1063081710937595904	508049566150847	R1-958	0(0)	0(0)	0(0)	0(0)	0(0)	S1-958	0(0)	0(0)	0(0)	0(0)	0(0)
1-959	1.004E+09	804869152	992135956	755306749	1077829265723577376	1065297871806730493	R1-959	0(0)	0(0)	0(0)	0(0)	0(1)	S1-959	0(0)	0(0)	0(0)	0(0)	0(1)
1-960	795752229	217722515	787908308	878755701	854432450036248211	846010104655429493	R1-960	0(0)	0(0)	0(0)	0(0)	0(1)	S1-960	0(0)	0(0)	0(0)	0(0)	0(0)
1-961	556597927	817328223	925844198	951451987	597642474188927071	994117638851789139	R1-961	0(0)	0(0)	0(0)	0(0)	0(0)	S1-961	0(0)	0(1)	0(0)	0(0)	0(0)
1-962	680025931	492263918	709437839	555201425	730172284011502062	761753079817679761	R1-962	0(0)	0(0)	0(0)	0(0)	0(0)	S1-962	0(0)	0(0)	0(0)	0(0)	0(0)
1-963	295804584	996448788	897020093	717003167	317617754568170004	963167991539472799	R1-963	0(0)	0(0)	0(0)	0(0)	0(1)	S1-963	0(0)	0(0)	0(0)	0(0)	0(0)
1-964	1.023E+09	7307478	912557707	263914791	1098619452480520406	979851377083352359	R1-964	0(0)	0(0)	0(0)	0(0)	0(0)	S1-964	0(0)	0(1)	0(0)	0(0)	0(0)
1-965	101522520	284510494	665221569	613121471	109008976086386974	714276221475323327	R1-965	0(0)	0(0)	0(0)	0(0)	0(0)	S1-965	0(0)	0(0)	0(0)	0(0)	0(0)
1-966	102169859	461898752	181484981	883523547	109704051222381568	194868015411068891	R1-966	0(0)	0(0)	0(0)	0(0)	0(0)	S1-966	0(1)	0(0)	0(0)	0(0)	0(0)
1-967	92288378	824951411	866676095	465474015	99093892152672883	930586371527971295	R1-967	0(0)	0(0)	0(0)	0(0)	0(0)	S1-967	0(0)	0(0)	0(0)	0(0)	0(0)
1-968	621968257	10221289	459613860	839887041	667833330751502057	493506625211967681	R1-968	0(0)	0(0)	0(0)	0(0)	0(0)	S1-968	0(0)	0(0)	0(0)	0(0)	0(0)
1-969	808692293	521142649	767190979	858580567	868326738261705081	823765042006386263	R1-969	0(0)	0(0)	0(0)	0(0)	0(0)	S1-969	0(0)	0(0)	0(0)	0(0)	0(0)
1-970	106388714	238114095	59471793	202499931	114234012061488431	63857351694870363	R1-970	0(0)	0(0)	0(0)	0(0)	0(0)	S1-970	0(0)	0(0)	0(0)	0(0)	0(0)
1-971	128792501	556011063	501409548	13213067	138289895497272887	538384402653748619	R1-971	0(0)	0(0)	0(0)	0(0)	0(0)	S1-971	0(0)	0(0)	0(1)	0(0)	0(0)
1-972	715887953	1.038E+09	619732997	893623113	768678837471611502	665433239485389641	R1-972	0(0)	0(0)	0(0)	0(0)	0(0)	S1-972	0(0)	0(0)	0(0)	0(0)	0(0)
1-973	275387402	36629986	226866096	151722117	295694971366731234	243595615874521221	R1-973	0(0)	0(0)	0(0)	0(0)	0(1)	S1-973	0(0)	0(0)	0(0)	0(0)	0(0)
1-974	831287762	793256716	544669786	531292839	892588438632014604	584834730028622503	R1-974	0(0)	0(0)	0(0)	0(0)	0(0)	S1-974	0(0)	0(0)	0(0)	0(0)	0(0)

Table 42 Detailed Results for Seed Index 1-975 to 1-999, Cases R1-975 to R1-999 and S1-975 to S1-999

Case Index	Seed s1	Seed s2	Seed s3	Seed s4	Seed t1=s1*2^30+s2	Seed t2=s3*2^30+s4	Case R1-975	Order 11	Order 12	Order 13	Order 14	Order 15	Case S1-975	Order 11	Order 12	Order 13	Order 14	Order 15
								0(0)	0(1)	0(0)	0(0)	0(0)		0(0)	0(0)	0(0)	0(0)	0(0)
1-975	565049120	360844770	603941280	952476907	606716873119239650	648477012528571627	R1-975	0(0)	0(1)	0(0)	0(0)	0(0)	S1-975	0(0)	0(0)	0(0)	0(0)	0(0)
1-976	1053698890	801944896	381270801	990674607	1131400568897320256	409386406294355631	R1-976	0(0)	0(0)	0(0)	0(1)	0(0)	S1-976	0(0)	0(0)	0(0)	0(0)	0(0)
1-977	75809490	241737304	595326119	911284835	81399820310847064	639226553801185891	R1-977	0(0)	0(0)	0(0)	0(0)	0(0)	S1-977	0(0)	0(0)	0(0)	0(0)	0(0)
1-978	625207547	825524499	1059303450	447934521	671311492719870227	1137418419020427321	R1-978	0(0)	0(0)	0(0)	0(0)	0(0)	S1-978	0(0)	0(0)	0(0)	0(0)	0(0)
1-979	834989763	358147086	126876034	882793795	896563431503094798	136232105051839811	R1-979	0(0)	0(0)	0(0)	0(0)	0(0)	S1-979	0(0)	0(0)	0(0)	0(0)	0(0)
1-980	435961797	206082159	362484129	725565655	468110415311179887	389214370569076951	R1-980	0(0)	0(0)	0(0)	0(0)	0(0)	S1-980	0(0)	0(0)	0(0)	0(0)	0(0)
1-981	747132131	838751196	472599358	385098305	802227017947698140	507449697065247297	R1-981	0(0)	0(0)	0(0)	0(0)	0(0)	S1-981	0(0)	0(0)	0(0)	0(0)	0(0)
1-982	1036088277	769933771	604931170	615638841	1112491317140931019	649539898485892921	R1-982	0(0)	0(0)	0(1)	0(0)	0(0)	S1-982	0(0)	0(0)	0(0)	0(0)	0(0)
1-983	980987585	124629672	1002441905	159055203	1053327398963884712	1076363799687789923	R1-983	0(0)	0(0)	0(0)	0(0)	0(1)	S1-983	0(0)	0(0)	0(0)	0(0)	0(0)
1-984	718023744	13733048	78844987	1027126513	770972124571602104	84659161181762801	R1-984	0(0)	0(0)	0(0)	0(1)	0(0)	S1-984	0(0)	0(0)	0(0)	0(0)	0(0)
1-985	869418974	968924641	23303967	47360091	933531515931893217	25022444080375899	R1-985	0(0)	0(0)	0(0)	0(0)	0(0)	S1-985	0(0)	0(0)	0(0)	0(0)	0(0)
1-986	88216021	416490572	360733372	66692525	94721231711052876	387334508895643053	R1-986	0(0)	0(0)	0(0)	0(0)	0(0)	S1-986	0(0)	0(0)	0(0)	0(0)	0(0)
1-987	671948033	504834367	229311192	453087041	721498707091466559	246221018014781249	R1-987	0(0)	0(1)	0(0)	0(0)	0(0)	S1-987	0(0)	0(0)	0(0)	0(0)	0(0)
1-988	690095601	12265366	611944910	252443865	740984509364381590	657070844103359705	R1-988	0(0)	0(0)	0(0)	0(0)	0(0)	S1-988	0(0)	0(0)	0(0)	0(0)	0(0)
1-989	580325540	40283529	855097182	276865353	623119803873668489	918153608174805321	R1-989	0(0)	0(0)	0(0)	0(0)	0(0)	S1-989	0(0)	0(0)	0(0)	0(0)	0(0)
1-990	732694431	281689371	989643240	512230351	786724655058271515	1062621338139100111	R1-990	0(0)	0(0)	0(0)	0(0)	0(0)	S1-990	0(0)	0(0)	0(0)	0(0)	0(0)
1-991	1044365260	977429350	853685470	999907379	1121378660172063590	916637794680004659	R1-991	0(0)	0(0)	0(0)	0(0)	0(0)	S1-991	0(0)	0(0)	0(0)	0(0)	0(0)
1-992	741824091	277039851	10031832	111280513	796527552834521835	10771597701022081	R1-992	0(0)	0(0)	0(0)	0(0)	0(0)	S1-992	0(0)	0(0)	0(0)	0(0)	0(0)
1-993	605311590	391658021	895988112	168833937	649948371126598181	962059909830030225	R1-993	0(0)	0(0)	0(0)	0(0)	0(0)	S1-993	0(0)	0(0)	0(0)	0(0)	0(0)
1-994	208126707	913637573	160171027	892809427	223474350910931141	171982331575742675	R1-994	0(0)	0(0)	0(0)	0(0)	0(0)	S1-994	0(0)	0(0)	0(0)	0(0)	0(0)
1-995	168454486	946655457	664927679	435830967	180876628005277921	713960659313377463	R1-995	0(0)	0(0)	0(0)	0(0)	0(0)	S1-995	0(0)	0(1)	0(0)	0(0)	0(0)
1-996	888616632	940926889	797018560	1055854991	954144844221343657	855792163432108431	R1-996	0(0)	0(0)	0(0)	0(0)	0(0)	S1-996	0(0)	0(0)	0(0)	0(0)	0(0)
1-997	2653687	136382886	689643759	987142277	2849374856087974	740499348686018693	R1-997	0(1)	0(0)	0(0)	0(0)	0(0)	S1-997	0(0)	0(0)	0(0)	0(0)	0(0)
1-998	1056770722	522530697	92875126	624821531	1134698923112607625	99723907820291355	R1-998	0(0)	0(0)	0(0)	0(0)	0(0)	S1-998	0(0)	0(0)	0(0)	0(0)	0(1)
1-999	551907149	115523636	123267273	640251471	592605788961423412	132357227190777423	R1-999	0(0)	0(0)	0(0)	0(0)	0(0)	S1-999	0(0)	0(0)	0(0)	0(0)	0(0)

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NOTE. Further discussion of ACORN sequences is available at the ACORN website <http://acorn.wikramaratna.org/index.html>. Included on that website there is a page with a more comprehensive list of relevant ACORN references as well as links, pointing to downloadable versions, or to other sites where those references can be accessed and downloaded (see <http://acorn.wikramaratna.org/references.html>). Recent ACORN references (including REAMC Limited reports, papers and presentations) are available for download from the publications page of the REAMC Limited website, <https://www.reamc-limited.com>.

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