/Library/Java/JavaVirtualMachines/jdk-9.0.1.jdk/Contents/Home/bin/java "-javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea\_rt.jar=50541:/Applications/IntelliJ IDEA CE.app/Contents/bin" -Dfile.encoding=UTF-8 -classpath /Users/simon/Documents/GitHub/SimpleAsteroids/out/production/SimpleAsteroids:/Users/simon/Documents/GitHub/SimpleAsteroids/lib/gson-2.2.4.jar:/Users/simon/Documents/GitHub/SimpleAsteroids/lib/gvgai-master.jar planetwar.HyperParamTuningTest

Search space size: 336.0

Creating new model

Action adapter: 12

[0.0 : -5.0 : false, 0.0 : 0.0 : false, 0.0 : 5.0 : false, 2.0 : -5.0 : false, 2.0 : 0.0 : false, 2.0 : 5.0 : false, 0.0 : -5.0 : true, 0.0 : 0.0 : true, 0.0 : 5.0 : true, 2.0 : -5.0 : true, 2.0 : 0.0 : true, 2.0 : 5.0 : true]

Checking fitness

Running checks: 100

Mean fitness

min = 430.0

max = 10030.0

ave = 8467.3

sd = 1823.4027769170218

se = 182.34027769170217

sum = 846730.0

sumsq = 7.4986719E9

n = 100

Checks complete: 258860 ms elapsed

Solution: [2, 1, 1, 0, 5]

Search space has 5 dimensions

Point Mutation Rate

[0]

0.0

0 1889.27 82

[1]

1.0

1 3025.30 83

[2]

2.0

2 3225.75 87

[3]

3.0

3 3188.57 84

Flip at least one bit?

[0]

false

0 2492.77 166

[1]

true

1 3180.59 170

Use shift Buffer?

[0]

false

0 1489.70 165

[1]

true

1 4144.44 171

nResamples

[0]

1

0 3185.71 112

[1]

2

1 2785.63 112

[2]

3

2 2550.98 112

sequence length

[0]

5

0 578.44 45

[1]

10

1 1848.54 48

[2]

15

2 1900.83 48

[3]

20

3 2614.49 49

[4]

50

4 3804.17 48

[5]

100

5 4899.20 50

[6]

150

6 4017.29 48

Point Mutation Rate

Flip at least one bit?

[0, 0]

0.0 false

0 900.75 40

[1, 0]

1.0 false

1 2890.24 41

[2, 0]

2.0 false

2 2869.30 43

[3, 0]

3.0 false

3 3235.48 42

[0, 1]

0.0 true

4 2830.71 42

[1, 1]

1.0 true

5 3157.14 42

[2, 1]

2.0 true

6 3574.09 44

[3, 1]

3.0 true

7 3141.67 42

Point Mutation Rate

Use shift Buffer?

[0, 0]

0.0 false

0 1277.75 40

[1, 0]

1.0 false

1 1487.32 41

[2, 0]

2.0 false

2 1725.71 42

[3, 0]

3.0 false

3 1457.86 42

[0, 1]

0.0 true

4 2471.67 42

[1, 1]

1.0 true

5 4526.67 42

[2, 1]

2.0 true

6 4625.78 45

[3, 1]

3.0 true

7 4919.29 42

Point Mutation Rate

nResamples

[0, 0]

0.0 1

0 2593.33 27

[1, 0]

1.0 1

1 3161.11 27

[2, 0]

2.0 1

2 3623.33 30

[3, 0]

3.0 1

3 3311.79 28

[0, 1]

0.0 2

4 1760.00 27

[1, 1]

1.0 2

5 3029.29 28

[2, 1]

2.0 2

6 3116.21 29

[3, 1]

3.0 2

7 3188.57 28

[0, 2]

0.0 3

8 1335.00 28

[1, 2]

1.0 3

9 2890.36 28

[2, 2]

2.0 3

10 2913.21 28

[3, 2]

3.0 3

11 3065.36 28

Point Mutation Rate

sequence length

[0, 0]

0.0 5

0 632.00 10

[1, 0]

1.0 5

1 438.18 11

[2, 0]

2.0 5

2 653.33 12

[3, 0]

3.0 5

3 587.50 12

[0, 1]

0.0 10

4 1240.00 12

[1, 1]

1.0 10

5 2048.33 12

[2, 1]

2.0 10

6 1906.67 12

[3, 1]

3.0 10

7 2199.17 12

[0, 2]

0.0 15

8 2061.67 12

[1, 2]

1.0 15

9 1979.17 12

[2, 2]

2.0 15

10 1812.50 12

[3, 2]

3.0 15

11 1750.00 12

[0, 3]

0.0 20

12 1250.00 12

[1, 3]

1.0 20

13 2986.67 12

[2, 3]

2.0 20

14 2743.08 13

[3, 3]

3.0 20

15 3467.50 12

[0, 4]

0.0 50

16 2620.00 12

[1, 4]

1.0 50

17 3565.00 12

[2, 4]

2.0 50

18 4343.33 12

[3, 4]

3.0 50

19 4688.33 12

[0, 5]

0.0 100

20 2975.00 12

[1, 5]

1.0 100

21 5134.17 12

[2, 5]

2.0 100

22 6331.43 14

[3, 5]

3.0 100

23 4917.50 12

[0, 6]

0.0 150

24 2236.67 12

[1, 6]

1.0 150

25 4810.00 12

[2, 6]

2.0 150

26 4312.50 12

[3, 6]

3.0 150

27 4710.00 12

Flip at least one bit?

Use shift Buffer?

[0, 0]

false false

0 1415.19 81

[1, 0]

true false

1 1561.55 84

[0, 1]

false true

2 3519.65 85

[1, 1]

true true

3 4761.98 86

Flip at least one bit?

nResamples

[0, 0]

false 1

0 2814.18 55

[1, 0]

true 1

1 3544.21 57

[0, 1]

false 2

2 2438.18 55

[1, 1]

true 2

3 3120.88 57

[0, 2]

false 3

4 2230.71 56

[1, 2]

true 3

5 2871.25 56

Flip at least one bit?

sequence length

[0, 0]

false 5

0 478.57 21

[1, 0]

true 5

1 665.83 24

[0, 1]

false 10

2 1433.75 24

[1, 1]

true 10

3 2263.33 24

[0, 2]

false 15

4 1848.75 24

[1, 2]

true 15

5 1952.92 24

[0, 3]

false 20

6 2584.00 25

[1, 3]

true 20

7 2646.25 24

[0, 4]

false 50

8 3195.42 24

[1, 4]

true 50

9 4412.92 24

[0, 5]

false 100

10 4070.00 24

[1, 5]

true 100

11 5664.62 26

[0, 6]

false 150

12 3583.33 24

[1, 6]

true 150

13 4451.25 24

Use shift Buffer?

nResamples

[0, 0]

false 1

0 1777.22 54

[1, 0]

true 1

1 4497.07 58

[0, 1]

false 2

2 1493.82 55

[1, 1]

true 2

3 4032.11 57

[0, 2]

false 3

4 1208.39 56

[1, 2]

true 3

5 3893.57 56

Use shift Buffer?

sequence length

[0, 0]

false 5

0 713.81 21

[1, 0]

true 5

1 460.00 24

[0, 1]

false 10

2 1991.25 24

[1, 1]

true 10

3 1705.83 24

[0, 2]

false 15

4 1807.92 24

[1, 2]

true 15

5 1993.75 24

[0, 3]

false 20

6 1954.17 24

[1, 3]

true 20

7 3248.40 25

[0, 4]

false 50

8 1418.75 24

[1, 4]

true 50

9 6189.58 24

[0, 5]

false 100

10 1504.17 24

[1, 5]

true 100

11 8033.08 26

[0, 6]

false 150

12 940.83 24

[1, 6]

true 150

13 7093.75 24

nResamples

sequence length

[0, 0]

1 5

0 455.71 14

[1, 0]

2 5

1 592.00 15

[2, 0]

3 5

2 673.13 16

[0, 1]

1 10

3 2004.38 16

[1, 1]

2 10

4 1968.75 16

[2, 1]

3 10

5 1572.50 16

[0, 2]

1 15

6 2274.38 16

[1, 2]

2 15

7 1595.00 16

[2, 2]

3 15

8 1833.13 16

[0, 3]

1 20

9 3285.88 17

[1, 3]

2 20

10 2539.38 16

[2, 3]

3 20

11 1976.25 16

[0, 4]

1 50

12 4350.63 16

[1, 4]

2 50

13 3283.75 16

[2, 4]

3 50

14 3778.13 16

[0, 5]

1 100

15 5220.59 17

[1, 5]

2 100

16 5090.00 17

[2, 5]

3 100

17 4355.00 16

[0, 6]

1 150

18 4233.75 16

[1, 6]

2 150

19 4149.38 16

[2, 6]

3 150

20 3668.75 16

Point Mutation Rate

Flip at least one bit?

Use shift Buffer?

nResamples

sequence length

[2, 0, 0, 0, 0]

2.0 false false 1 5

2 730.00 1

[3, 0, 0, 0, 0]

3.0 false false 1 5

3 340.00 1

[0, 1, 0, 0, 0]

0.0 true false 1 5

4 -20.00 1

[1, 1, 0, 0, 0]

1.0 true false 1 5

5 500.00 1

[2, 1, 0, 0, 0]

2.0 true false 1 5

6 1080.00 1

[3, 1, 0, 0, 0]

3.0 true false 1 5

7 330.00 1

[0, 0, 1, 0, 0]

0.0 false true 1 5

8 1110.00 1

[1, 0, 1, 0, 0]

1.0 false true 1 5

9 -210.00 1

[2, 0, 1, 0, 0]

2.0 false true 1 5

10 -180.00 1

[3, 0, 1, 0, 0]

3.0 false true 1 5

11 50.00 1

[0, 1, 1, 0, 0]

0.0 true true 1 5

12 70.00 1

[1, 1, 1, 0, 0]

1.0 true true 1 5

13 480.00 1

[2, 1, 1, 0, 0]

2.0 true true 1 5

14 1330.00 1

[3, 1, 1, 0, 0]

3.0 true true 1 5

15 770.00 1

[1, 0, 0, 1, 0]

1.0 false false 2 5

17 1110.00 1

[2, 0, 0, 1, 0]

2.0 false false 2 5

18 200.00 1

[3, 0, 0, 1, 0]

3.0 false false 2 5

19 -140.00 1

[0, 1, 0, 1, 0]

0.0 true false 2 5

20 710.00 1

[1, 1, 0, 1, 0]

1.0 true false 2 5

21 410.00 1

[2, 1, 0, 1, 0]

2.0 true false 2 5

22 640.00 1

[3, 1, 0, 1, 0]

3.0 true false 2 5

23 200.00 1

[0, 0, 1, 1, 0]

0.0 false true 2 5

24 -400.00 1

[1, 0, 1, 1, 0]

1.0 false true 2 5

25 200.00 1

[2, 0, 1, 1, 0]

2.0 false true 2 5

26 1040.00 1

[3, 0, 1, 1, 0]

3.0 false true 2 5

27 2550.00 1

[0, 1, 1, 1, 0]

0.0 true true 2 5

28 690.00 1

[1, 1, 1, 1, 0]

1.0 true true 2 5

29 160.00 1

[2, 1, 1, 1, 0]

2.0 true true 2 5

30 570.00 1

[3, 1, 1, 1, 0]

3.0 true true 2 5

31 940.00 1

[0, 0, 0, 2, 0]

0.0 false false 3 5

32 370.00 1

[1, 0, 0, 2, 0]

1.0 false false 3 5

33 570.00 1

[2, 0, 0, 2, 0]

2.0 false false 3 5

34 850.00 1

[3, 0, 0, 2, 0]

3.0 false false 3 5

35 800.00 1

[0, 1, 0, 2, 0]

0.0 true false 3 5

36 3580.00 1

[1, 1, 0, 2, 0]

1.0 true false 3 5

37 1290.00 1

[2, 1, 0, 2, 0]

2.0 true false 3 5

38 1140.00 1

[3, 1, 0, 2, 0]

3.0 true false 3 5

39 300.00 1

[0, 0, 1, 2, 0]

0.0 false true 3 5

40 240.00 1

[1, 0, 1, 2, 0]

1.0 false true 3 5

41 150.00 1

[2, 0, 1, 2, 0]

2.0 false true 3 5

42 240.00 1

[3, 0, 1, 2, 0]

3.0 false true 3 5

43 430.00 1

[0, 1, 1, 2, 0]

0.0 true true 3 5

44 -30.00 1

[1, 1, 1, 2, 0]

1.0 true true 3 5

45 160.00 1

[2, 1, 1, 2, 0]

2.0 true true 3 5

46 200.00 1

[3, 1, 1, 2, 0]

3.0 true true 3 5

47 480.00 1

[0, 0, 0, 0, 1]

0.0 false false 1 10

48 2060.00 1

[1, 0, 0, 0, 1]

1.0 false false 1 10

49 2830.00 1

[2, 0, 0, 0, 1]

2.0 false false 1 10

50 1260.00 1

[3, 0, 0, 0, 1]

3.0 false false 1 10

51 1310.00 1

[0, 1, 0, 0, 1]

0.0 true false 1 10

52 890.00 1

[1, 1, 0, 0, 1]

1.0 true false 1 10

53 520.00 1

[2, 1, 0, 0, 1]

2.0 true false 1 10

54 1850.00 1

[3, 1, 0, 0, 1]

3.0 true false 1 10

55 2410.00 1

[0, 0, 1, 0, 1]

0.0 false true 1 10

56 4020.00 1

[1, 0, 1, 0, 1]

1.0 false true 1 10

57 3570.00 1

[2, 0, 1, 0, 1]

2.0 false true 1 10

58 1100.00 1

[3, 0, 1, 0, 1]

3.0 false true 1 10

59 820.00 1

[0, 1, 1, 0, 1]

0.0 true true 1 10

60 2120.00 1

[1, 1, 1, 0, 1]

1.0 true true 1 10

61 2590.00 1

[2, 1, 1, 0, 1]

2.0 true true 1 10

62 620.00 1

[3, 1, 1, 0, 1]

3.0 true true 1 10

63 4100.00 1

[0, 0, 0, 1, 1]

0.0 false false 2 10

64 1660.00 1

[1, 0, 0, 1, 1]

1.0 false false 2 10

65 1950.00 1

[2, 0, 0, 1, 1]

2.0 false false 2 10

66 1900.00 1

[3, 0, 0, 1, 1]

3.0 false false 2 10

67 1640.00 1

[0, 1, 0, 1, 1]

0.0 true false 2 10

68 2000.00 1

[1, 1, 0, 1, 1]

1.0 true false 2 10

69 1990.00 1

[2, 1, 0, 1, 1]

2.0 true false 2 10

70 3570.00 1

[3, 1, 0, 1, 1]

3.0 true false 2 10

71 5710.00 1

[0, 0, 1, 1, 1]

0.0 false true 2 10

72 -280.00 1

[1, 0, 1, 1, 1]

1.0 false true 2 10

73 1480.00 1

[2, 0, 1, 1, 1]

2.0 false true 2 10

74 730.00 1

[3, 0, 1, 1, 1]

3.0 false true 2 10

75 520.00 1

[0, 1, 1, 1, 1]

0.0 true true 2 10

76 1140.00 1

[1, 1, 1, 1, 1]

1.0 true true 2 10

77 900.00 1

[2, 1, 1, 1, 1]

2.0 true true 2 10

78 4600.00 1

[3, 1, 1, 1, 1]

3.0 true true 2 10

79 1990.00 1

[0, 0, 0, 2, 1]

0.0 false false 3 10

80 100.00 1

[1, 0, 0, 2, 1]

1.0 false false 3 10

81 1120.00 1

[2, 0, 0, 2, 1]

2.0 false false 3 10

82 670.00 1

[3, 0, 0, 2, 1]

3.0 false false 3 10

83 390.00 1

[0, 1, 0, 2, 1]

0.0 true false 3 10

84 1530.00 1

[1, 1, 0, 2, 1]

1.0 true false 3 10

85 3580.00 1

[2, 1, 0, 2, 1]

2.0 true false 3 10

86 3570.00 1

[3, 1, 0, 2, 1]

3.0 true false 3 10

87 3280.00 1

[0, 0, 1, 2, 1]

0.0 false true 3 10

88 -450.00 1

[1, 0, 1, 2, 1]

1.0 false true 3 10

89 1460.00 1

[2, 0, 1, 2, 1]

2.0 false true 3 10

90 2670.00 1

[3, 0, 1, 2, 1]

3.0 false true 3 10

91 1880.00 1

[0, 1, 1, 2, 1]

0.0 true true 3 10

92 90.00 1

[1, 1, 1, 2, 1]

1.0 true true 3 10

93 2590.00 1

[2, 1, 1, 2, 1]

2.0 true true 3 10

94 340.00 1

[3, 1, 1, 2, 1]

3.0 true true 3 10

95 2340.00 1

[0, 0, 0, 0, 2]

0.0 false false 1 15

96 1120.00 1

[1, 0, 0, 0, 2]

1.0 false false 1 15

97 3770.00 1

[2, 0, 0, 0, 2]

2.0 false false 1 15

98 1300.00 1

[3, 0, 0, 0, 2]

3.0 false false 1 15

99 2630.00 1

[0, 1, 0, 0, 2]

0.0 true false 1 15

100 2810.00 1

[1, 1, 0, 0, 2]

1.0 true false 1 15

101 1130.00 1

[2, 1, 0, 0, 2]

2.0 true false 1 15

102 5130.00 1

[3, 1, 0, 0, 2]

3.0 true false 1 15

103 1390.00 1

[0, 0, 1, 0, 2]

0.0 false true 1 15

104 460.00 1

[1, 0, 1, 0, 2]

1.0 false true 1 15

105 2650.00 1

[2, 0, 1, 0, 2]

2.0 false true 1 15

106 2170.00 1

[3, 0, 1, 0, 2]

3.0 false true 1 15

107 860.00 1

[0, 1, 1, 0, 2]

0.0 true true 1 15

108 6580.00 1

[1, 1, 1, 0, 2]

1.0 true true 1 15

109 1900.00 1

[2, 1, 1, 0, 2]

2.0 true true 1 15

110 1480.00 1

[3, 1, 1, 0, 2]

3.0 true true 1 15

111 1010.00 1

[0, 0, 0, 1, 2]

0.0 false false 2 15

112 390.00 1

[1, 0, 0, 1, 2]

1.0 false false 2 15

113 1880.00 1

[2, 0, 0, 1, 2]

2.0 false false 2 15

114 1010.00 1

[3, 0, 0, 1, 2]

3.0 false false 2 15

115 1510.00 1

[0, 1, 0, 1, 2]

0.0 true false 2 15

116 2400.00 1

[1, 1, 0, 1, 2]

1.0 true false 2 15

117 1160.00 1

[2, 1, 0, 1, 2]

2.0 true false 2 15

118 1890.00 1

[3, 1, 0, 1, 2]

3.0 true false 2 15

119 1950.00 1

[0, 0, 1, 1, 2]

0.0 false true 2 15

120 -210.00 1

[1, 0, 1, 1, 2]

1.0 false true 2 15

121 3900.00 1

[2, 0, 1, 1, 2]

2.0 false true 2 15

122 990.00 1

[3, 0, 1, 1, 2]

3.0 false true 2 15

123 2780.00 1

[0, 1, 1, 1, 2]

0.0 true true 2 15

124 1590.00 1

[1, 1, 1, 1, 2]

1.0 true true 2 15

125 1970.00 1

[2, 1, 1, 1, 2]

2.0 true true 2 15

126 1490.00 1

[3, 1, 1, 1, 2]

3.0 true true 2 15

127 820.00 1

[0, 0, 0, 2, 2]

0.0 false false 3 15

128 3470.00 1

[1, 0, 0, 2, 2]

1.0 false false 3 15

129 700.00 1

[2, 0, 0, 2, 2]

2.0 false false 3 15

130 230.00 1

[3, 0, 0, 2, 2]

3.0 false false 3 15

131 2000.00 1

[0, 1, 0, 2, 2]

0.0 true false 3 15

132 1220.00 1

[1, 1, 0, 2, 2]

1.0 true false 3 15

133 2620.00 1

[2, 1, 0, 2, 2]

2.0 true false 3 15

134 960.00 1

[3, 1, 0, 2, 2]

3.0 true false 3 15

135 720.00 1

[0, 0, 1, 2, 2]

0.0 false true 3 15

136 3320.00 1

[1, 0, 1, 2, 2]

1.0 false true 3 15

137 270.00 1

[2, 0, 1, 2, 2]

2.0 false true 3 15

138 3740.00 1

[3, 0, 1, 2, 2]

3.0 false true 3 15

139 3430.00 1

[0, 1, 1, 2, 2]

0.0 true true 3 15

140 1590.00 1

[1, 1, 1, 2, 2]

1.0 true true 3 15

141 1800.00 1

[2, 1, 1, 2, 2]

2.0 true true 3 15

142 1360.00 1

[3, 1, 1, 2, 2]

3.0 true true 3 15

143 1900.00 1

[0, 0, 0, 0, 3]

0.0 false false 1 20

144 900.00 1

[1, 0, 0, 0, 3]

1.0 false false 1 20

145 3260.00 1

[2, 0, 0, 0, 3]

2.0 false false 1 20

146 5300.00 1

[3, 0, 0, 0, 3]

3.0 false false 1 20

147 1460.00 1

[0, 1, 0, 0, 3]

0.0 true false 1 20

148 1870.00 1

[1, 1, 0, 0, 3]

1.0 true false 1 20

149 1800.00 1

[2, 1, 0, 0, 3]

2.0 true false 1 20

150 3720.00 1

[3, 1, 0, 0, 3]

3.0 true false 1 20

151 4060.00 1

[0, 0, 1, 0, 3]

0.0 false true 1 20

152 610.00 1

[1, 0, 1, 0, 3]

1.0 false true 1 20

153 1130.00 1

[2, 0, 1, 0, 3]

2.0 false true 1 20

154 3320.00 2

[3, 0, 1, 0, 3]

3.0 false true 1 20

155 7210.00 1

[0, 1, 1, 0, 3]

0.0 true true 1 20

156 3800.00 1

[1, 1, 1, 0, 3]

1.0 true true 1 20

157 8180.00 1

[2, 1, 1, 0, 3]

2.0 true true 1 20

158 2310.00 1

[3, 1, 1, 0, 3]

3.0 true true 1 20

159 3610.00 1

[0, 0, 0, 1, 3]

0.0 false false 2 20

160 920.00 1

[1, 0, 0, 1, 3]

1.0 false false 2 20

161 900.00 1

[2, 0, 0, 1, 3]

2.0 false false 2 20

162 3040.00 1

[3, 0, 0, 1, 3]

3.0 false false 2 20

163 2540.00 1

[0, 1, 0, 1, 3]

0.0 true false 2 20

164 3160.00 1

[1, 1, 0, 1, 3]

1.0 true false 2 20

165 3180.00 1

[2, 1, 0, 1, 3]

2.0 true false 2 20

166 1020.00 1

[3, 1, 0, 1, 3]

3.0 true false 2 20

167 1210.00 1

[0, 0, 1, 1, 3]

0.0 false true 2 20

168 1100.00 1

[1, 0, 1, 1, 3]

1.0 false true 2 20

169 4000.00 1

[2, 0, 1, 1, 3]

2.0 false true 2 20

170 3190.00 1

[3, 0, 1, 1, 3]

3.0 false true 2 20

171 3970.00 1

[0, 1, 1, 1, 3]

0.0 true true 2 20

172 1190.00 1

[1, 1, 1, 1, 3]

1.0 true true 2 20

173 6480.00 1

[2, 1, 1, 1, 3]

2.0 true true 2 20

174 1280.00 1

[3, 1, 1, 1, 3]

3.0 true true 2 20

175 3450.00 1

[0, 0, 0, 2, 3]

0.0 false false 3 20

176 350.00 1

[1, 0, 0, 2, 3]

1.0 false false 3 20

177 460.00 1

[2, 0, 0, 2, 3]

2.0 false false 3 20

178 2560.00 1

[3, 0, 0, 2, 3]

3.0 false false 3 20

179 1270.00 1

[0, 1, 0, 2, 3]

0.0 true false 3 20

180 770.00 1

[1, 1, 0, 2, 3]

1.0 true false 3 20

181 1350.00 1

[2, 1, 0, 2, 3]

2.0 true false 3 20

182 1060.00 1

[3, 1, 0, 2, 3]

3.0 true false 3 20

183 740.00 1

[0, 0, 1, 2, 3]

0.0 false true 3 20

184 -460.00 1

[1, 0, 1, 2, 3]

1.0 false true 3 20

185 3860.00 1

[2, 0, 1, 2, 3]

2.0 false true 3 20

186 3340.00 1

[3, 0, 1, 2, 3]

3.0 false true 3 20

187 7050.00 1

[0, 1, 1, 2, 3]

0.0 true true 3 20

188 790.00 1

[1, 1, 1, 2, 3]

1.0 true true 3 20

189 1240.00 1

[2, 1, 1, 2, 3]

2.0 true true 3 20

190 2200.00 1

[3, 1, 1, 2, 3]

3.0 true true 3 20

191 5040.00 1

[0, 0, 0, 0, 4]

0.0 false false 1 50

192 980.00 1

[1, 0, 0, 0, 4]

1.0 false false 1 50

193 110.00 1

[2, 0, 0, 0, 4]

2.0 false false 1 50

194 640.00 1

[3, 0, 0, 0, 4]

3.0 false false 1 50

195 7560.00 1

[0, 1, 0, 0, 4]

0.0 true false 1 50

196 2850.00 1

[1, 1, 0, 0, 4]

1.0 true false 1 50

197 2650.00 1

[2, 1, 0, 0, 4]

2.0 true false 1 50

198 820.00 1

[3, 1, 0, 0, 4]

3.0 true false 1 50

199 1120.00 1

[0, 0, 1, 0, 4]

0.0 false true 1 50

200 3740.00 1

[1, 0, 1, 0, 4]

1.0 false true 1 50

201 1200.00 1

[2, 0, 1, 0, 4]

2.0 false true 1 50

202 9890.00 1

[3, 0, 1, 0, 4]

3.0 false true 1 50

203 5880.00 1

[0, 1, 1, 0, 4]

0.0 true true 1 50

204 8520.00 1

[1, 1, 1, 0, 4]

1.0 true true 1 50

205 9100.00 1

[2, 1, 1, 0, 4]

2.0 true true 1 50

206 8500.00 1

[3, 1, 1, 0, 4]

3.0 true true 1 50

207 6050.00 1

[0, 0, 0, 1, 4]

0.0 false false 2 50

208 570.00 1

[1, 0, 0, 1, 4]

1.0 false false 2 50

209 700.00 1

[2, 0, 0, 1, 4]

2.0 false false 2 50

210 2410.00 1

[3, 0, 0, 1, 4]

3.0 false false 2 50

211 1380.00 1

[0, 1, 0, 1, 4]

0.0 true false 2 50

212 1690.00 1

[1, 1, 0, 1, 4]

1.0 true false 2 50

213 1610.00 1

[2, 1, 0, 1, 4]

2.0 true false 2 50

214 190.00 1

[3, 1, 0, 1, 4]

3.0 true false 2 50

215 500.00 1

[0, 0, 1, 1, 4]

0.0 false true 2 50

216 -140.00 1

[1, 0, 1, 1, 4]

1.0 false true 2 50

217 8710.00 1

[2, 0, 1, 1, 4]

2.0 false true 2 50

218 1190.00 1

[3, 0, 1, 1, 4]

3.0 false true 2 50

219 9120.00 1

[0, 1, 1, 1, 4]

0.0 true true 2 50

220 7420.00 1

[1, 1, 1, 1, 4]

1.0 true true 2 50

221 2860.00 1

[2, 1, 1, 1, 4]

2.0 true true 2 50

222 5320.00 1

[3, 1, 1, 1, 4]

3.0 true true 2 50

223 9010.00 1

[0, 0, 0, 2, 4]

0.0 false false 3 50

224 320.00 1

[1, 0, 0, 2, 4]

1.0 false false 3 50

225 1480.00 1

[2, 0, 0, 2, 4]

2.0 false false 3 50

226 1460.00 1

[3, 0, 0, 2, 4]

3.0 false false 3 50

227 740.00 1

[0, 1, 0, 2, 4]

0.0 true false 3 50

228 900.00 1

[1, 1, 0, 2, 4]

1.0 true false 3 50

229 660.00 1

[2, 1, 0, 2, 4]

2.0 true false 3 50

230 2500.00 1

[3, 1, 0, 2, 4]

3.0 true false 3 50

231 210.00 1

[0, 0, 1, 2, 4]

0.0 false true 3 50

232 190.00 1

[1, 0, 1, 2, 4]

1.0 false true 3 50

233 4190.00 1

[2, 0, 1, 2, 4]

2.0 false true 3 50

234 9310.00 1

[3, 0, 1, 2, 4]

3.0 false true 3 50

235 5060.00 1

[0, 1, 1, 2, 4]

0.0 true true 3 50

236 4400.00 1

[1, 1, 1, 2, 4]

1.0 true true 3 50

237 9510.00 1

[2, 1, 1, 2, 4]

2.0 true true 3 50

238 9890.00 1

[3, 1, 1, 2, 4]

3.0 true true 3 50

239 9630.00 1

[0, 0, 0, 0, 5]

0.0 false false 1 100

240 1810.00 1

[1, 0, 0, 0, 5]

1.0 false false 1 100

241 480.00 1

[2, 0, 0, 0, 5]

2.0 false false 1 100

242 3620.00 1

[3, 0, 0, 0, 5]

3.0 false false 1 100

243 1570.00 1

[0, 1, 0, 0, 5]

0.0 true false 1 100

244 1590.00 1

[1, 1, 0, 0, 5]

1.0 true false 1 100

245 1120.00 1

[2, 1, 0, 0, 5]

2.0 true false 1 100

246 3670.00 1

[3, 1, 0, 0, 5]

3.0 true false 1 100

247 1250.00 1

[0, 0, 1, 0, 5]

0.0 false true 1 100

248 -220.00 1

[1, 0, 1, 0, 5]

1.0 false true 1 100

249 9930.00 1

[2, 0, 1, 0, 5]

2.0 false true 1 100

250 8410.00 1

[3, 0, 1, 0, 5]

3.0 false true 1 100

251 8410.00 1

[0, 1, 1, 0, 5]

0.0 true true 1 100

252 9960.00 1

[1, 1, 1, 0, 5]

1.0 true true 1 100

253 8890.00 1

[2, 1, 1, 0, 5]

2.0 true true 1 100

254 9625.00 2

[3, 1, 1, 0, 5]

3.0 true true 1 100

255 9010.00 1

[0, 0, 0, 1, 5]

0.0 false false 2 100

256 1010.00 1

[1, 0, 0, 1, 5]

1.0 false false 2 100

257 2300.00 1

[2, 0, 0, 1, 5]

2.0 false false 2 100

258 1740.00 1

[3, 0, 0, 1, 5]

3.0 false false 2 100

259 650.00 1

[0, 1, 0, 1, 5]

0.0 true false 2 100

260 1730.00 1

[1, 1, 0, 1, 5]

1.0 true false 2 100

261 1710.00 1

[2, 1, 0, 1, 5]

2.0 true false 2 100

262 3190.00 1

[3, 1, 0, 1, 5]

3.0 true false 2 100

263 620.00 1

[0, 0, 1, 1, 5]

0.0 false true 2 100

264 -100.00 1

[1, 0, 1, 1, 5]

1.0 false true 2 100

265 9220.00 1

[2, 0, 1, 1, 5]

2.0 false true 2 100

266 9970.00 1

[3, 0, 1, 1, 5]

3.0 false true 2 100

267 9960.00 1

[0, 1, 1, 1, 5]

0.0 true true 2 100

268 9220.00 1

[1, 1, 1, 1, 5]

1.0 true true 2 100

269 7610.00 1

[2, 1, 1, 1, 5]

2.0 true true 2 100

270 9330.00 2

[3, 1, 1, 1, 5]

3.0 true true 2 100

271 9040.00 1

[0, 0, 0, 2, 5]

0.0 false false 3 100

272 1390.00 1

[1, 0, 0, 2, 5]

1.0 false false 3 100

273 1350.00 1

[2, 0, 0, 2, 5]

2.0 false false 3 100

274 340.00 1

[3, 0, 0, 2, 5]

3.0 false false 3 100

275 1730.00 1

[0, 1, 0, 2, 5]

0.0 true false 3 100

276 780.00 1

[1, 1, 0, 2, 5]

1.0 true false 3 100

277 1280.00 1

[2, 1, 0, 2, 5]

2.0 true false 3 100

278 950.00 1

[3, 1, 0, 2, 5]

3.0 true false 3 100

279 220.00 1

[0, 0, 1, 2, 5]

0.0 false true 3 100

280 270.00 1

[1, 0, 1, 2, 5]

1.0 false true 3 100

281 7730.00 1

[2, 0, 1, 2, 5]

2.0 false true 3 100

282 8890.00 1

[3, 0, 1, 2, 5]

3.0 false true 3 100

283 7220.00 1

[0, 1, 1, 2, 5]

0.0 true true 3 100

284 8260.00 1

[1, 1, 1, 2, 5]

1.0 true true 3 100

285 9990.00 1

[2, 1, 1, 2, 5]

2.0 true true 3 100

286 9950.00 1

[3, 1, 1, 2, 5]

3.0 true true 3 100

287 9330.00 1

[0, 0, 0, 0, 6]

0.0 false false 1 150

288 960.00 1

[1, 0, 0, 0, 6]

1.0 false false 1 150

289 1090.00 1

[2, 0, 0, 0, 6]

2.0 false false 1 150

290 630.00 1

[3, 0, 0, 0, 6]

3.0 false false 1 150

291 730.00 1

[0, 1, 0, 0, 6]

0.0 true false 1 150

292 510.00 1

[1, 1, 0, 0, 6]

1.0 true false 1 150

293 260.00 1

[2, 1, 0, 0, 6]

2.0 true false 1 150

294 1460.00 1

[3, 1, 0, 0, 6]

3.0 true false 1 150

295 750.00 1

[0, 0, 1, 0, 6]

0.0 false true 1 150

296 2390.00 1

[1, 0, 1, 0, 6]

1.0 false true 1 150

297 9110.00 1

[2, 0, 1, 0, 6]

2.0 false true 1 150

298 6450.00 1

[3, 0, 1, 0, 6]

3.0 false true 1 150

299 9130.00 1

[0, 1, 1, 0, 6]

0.0 true true 1 150

300 8530.00 1

[1, 1, 1, 0, 6]

1.0 true true 1 150

301 7310.00 1

[2, 1, 1, 0, 6]

2.0 true true 1 150

302 9520.00 1

[3, 1, 1, 0, 6]

3.0 true true 1 150

303 8910.00 1

[0, 0, 0, 1, 6]

0.0 false false 2 150

304 250.00 1

[1, 0, 0, 1, 6]

1.0 false false 2 150

305 2060.00 1

[2, 0, 0, 1, 6]

2.0 false false 2 150

306 1440.00 1

[3, 0, 0, 1, 6]

3.0 false false 2 150

307 1150.00 1

[0, 1, 0, 1, 6]

0.0 true false 2 150

308 470.00 1

[1, 1, 0, 1, 6]

1.0 true false 2 150

309 1190.00 1

[2, 1, 0, 1, 6]

2.0 true false 2 150

310 520.00 1

[3, 1, 0, 1, 6]

3.0 true false 2 150

311 1370.00 1

[0, 0, 1, 1, 6]

0.0 false true 2 150

312 -50.00 1

[1, 0, 1, 1, 6]

1.0 false true 2 150

313 7670.00 1

[2, 0, 1, 1, 6]

2.0 false true 2 150

314 8600.00 1

[3, 0, 1, 1, 6]

3.0 false true 2 150

315 8220.00 1

[0, 1, 1, 1, 6]

0.0 true true 2 150

316 9390.00 1

[1, 1, 1, 1, 6]

1.0 true true 2 150

317 7510.00 1

[2, 1, 1, 1, 6]

2.0 true true 2 150

318 9980.00 1

[3, 1, 1, 1, 6]

3.0 true true 2 150

319 6620.00 1

[0, 0, 0, 2, 6]

0.0 false false 3 150

320 1090.00 1

[1, 0, 0, 2, 6]

1.0 false false 3 150

321 1200.00 1

[2, 0, 0, 2, 6]

2.0 false false 3 150

322 1710.00 1

[3, 0, 0, 2, 6]

3.0 false false 3 150

323 1290.00 1

[0, 1, 0, 2, 6]

0.0 true false 3 150

324 -50.00 1

[1, 1, 0, 2, 6]

1.0 true false 3 150

325 1650.00 1

[2, 1, 0, 2, 6]

2.0 true false 3 150

326 510.00 1

[3, 1, 0, 2, 6]

3.0 true false 3 150

327 340.00 1

[0, 0, 1, 2, 6]

0.0 false true 3 150

328 1170.00 1

[1, 0, 1, 2, 6]

1.0 false true 3 150

329 8960.00 1

[2, 0, 1, 2, 6]

2.0 false true 3 150

330 1960.00 1

[3, 0, 1, 2, 6]

3.0 false true 3 150

331 8790.00 1

[0, 1, 1, 2, 6]

0.0 true true 3 150

332 2180.00 1

[1, 1, 1, 2, 6]

1.0 true true 3 150

333 9710.00 1

[2, 1, 1, 2, 6]

2.0 true true 3 150

334 8970.00 1

[3, 1, 1, 2, 6]

3.0 true true 3 150

335 9220.00 1

GridModel has 16 tuples.

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 1990.0

max = 10020.0

ave = 8763.8

sd = 1407.8687811903935

se = 140.78687811903936

sum = 876380.0

sumsq = 7.8766464E9

n = 100

Checks complete: 4979426 ms elapsed

Solution: [3, 1, 1, 0, 5]

Search space has 5 dimensions

Point Mutation Rate

[0]

0.0

0 2346.15 91

[1]

1.0

1 4357.71 118

[2]

2.0

2 6031.19 193

[3]

3.0

3 6882.70 270

Flip at least one bit?

[0]

false

0 3268.11 201

[1]

true

1 6567.24 471

Use shift Buffer?

[0]

false

0 1470.30 169

[1]

true

1 6961.39 503

nResamples

[0]

1

0 6785.06 358

[1]

2

1 4351.17 162

[2]

3

2 4053.42 152

sequence length

[0]

5

0 565.83 48

[1]

10

1 1828.37 49

[2]

15

2 1961.80 50

[3]

20

3 2645.36 56

[4]

50

4 4841.08 74

[5]

100

5 8160.86 290

[6]

150

6 6306.57 105

Point Mutation Rate

Flip at least one bit?

[0, 0]

0.0 false

0 879.05 42

[1, 0]

1.0 false

1 3638.43 51

[2, 0]

2.0 false

2 3650.98 51

[3, 0]

3.0 false

3 4354.56 57

[0, 1]

0.0 true

4 3603.67 49

[1, 1]

1.0 true

5 4905.22 67

[2, 1]

2.0 true

6 6886.06 142

[3, 1]

3.0 true

7 7559.25 213

Point Mutation Rate

Use shift Buffer?

[0, 0]

0.0 false

0 1238.10 42

[1, 0]

1.0 false

1 1457.62 42

[2, 0]

2.0 false

2 1721.63 43

[3, 0]

3.0 false

3 1457.86 42

[0, 1]

0.0 true

4 3295.92 49

[1, 1]

1.0 true

5 5960.39 76

[2, 1]

2.0 true

6 7266.60 150

[3, 1]

3.0 true

7 7882.02 228

Point Mutation Rate

nResamples

[0, 0]

0.0 1

0 3365.31 32

[1, 0]

1.0 1

1 4754.00 45

[2, 0]

2.0 1

2 7205.21 117

[3, 0]

3.0 1

3 7709.88 164

[0, 1]

0.0 2

4 2138.67 30

[1, 1]

1.0 2

5 4175.41 37

[2, 1]

2.0 2

6 4267.44 39

[3, 1]

3.0 2

7 5710.89 56

[0, 2]

0.0 3

8 1436.21 29

[1, 2]

1.0 3

9 4049.72 36

[2, 2]

2.0 3

10 4177.84 37

[3, 2]

3.0 3

11 5482.00 50

Point Mutation Rate

sequence length

[0, 0]

0.0 5

0 600.83 12

[1, 0]

1.0 5

1 421.67 12

[2, 0]

2.0 5

2 653.33 12

[3, 0]

3.0 5

3 587.50 12

[0, 1]

0.0 10

4 1240.00 12

[1, 1]

1.0 10

5 2048.33 12

[2, 1]

2.0 10

6 1906.67 12

[3, 1]

3.0 10

7 2096.15 13

[0, 2]

0.0 15

8 2061.67 12

[1, 2]

1.0 15

9 1979.17 12

[2, 2]

2.0 15

10 1962.31 13

[3, 2]

3.0 15

11 1853.08 13

[0, 3]

0.0 20

12 1250.00 12

[1, 3]

1.0 20

13 3050.77 13

[2, 3]

2.0 20

14 2812.00 15

[3, 3]

3.0 20

15 3206.25 16

[0, 4]

0.0 50

16 3046.15 13

[1, 4]

1.0 50

17 4640.56 18

[2, 4]

2.0 50

18 4917.37 19

[3, 4]

3.0 50

19 5903.33 24

[0, 5]

0.0 100

20 4202.50 16

[1, 5]

1.0 100

21 6846.55 29

[2, 5]

2.0 100

22 8389.79 97

[3, 5]

3.0 100

23 8696.28 148

[0, 6]

0.0 150

24 3202.14 14

[1, 6]

1.0 150

25 6321.82 22

[2, 6]

2.0 150

26 6334.80 25

[3, 6]

3.0 150

27 7270.68 44

Flip at least one bit?

Use shift Buffer?

[0, 0]

false false

0 1378.10 84

[1, 0]

true false

1 1561.41 85

[0, 1]

false true

2 4625.04 117

[1, 1]

true true

3 7669.56 386

Flip at least one bit?

nResamples

[0, 0]

false 1

0 3814.72 72

[1, 0]

true 1

1 7532.83 286

[0, 1]

false 2

2 2975.69 65

[1, 1]

true 2

3 5272.89 97

[0, 2]

false 3

4 2950.16 64

[1, 2]

true 3

5 4855.80 88

Flip at least one bit?

sequence length

[0, 0]

false 5

0 465.83 24

[1, 0]

true 5

1 665.83 24

[0, 1]

false 10

2 1433.75 24

[1, 1]

true 10

3 2207.20 25

[0, 2]

false 15

4 1848.75 24

[1, 2]

true 15

5 2066.15 26

[0, 3]

false 20

6 2505.00 26

[1, 3]

true 20

7 2767.00 30

[0, 4]

false 50

8 3910.97 31

[1, 4]

true 50

9 5511.63 43

[0, 5]

false 100

10 5745.38 39

[1, 5]

true 100

11 8536.18 251

[0, 6]

false 150

12 4742.12 33

[1, 6]

true 150

13 7023.61 72

Use shift Buffer?

nResamples

[0, 0]

false 1

0 1731.23 57

[1, 0]

true 1

1 7742.09 301

[0, 1]

false 2

2 1466.61 56

[1, 1]

true 2

3 5875.09 106

[0, 2]

false 3

4 1208.39 56

[1, 2]

true 3

5 5713.02 96

Use shift Buffer?

sequence length

[0, 0]

false 5

0 671.67 24

[1, 0]

true 5

1 460.00 24

[0, 1]

false 10

2 1991.25 24

[1, 1]

true 10

3 1672.00 25

[0, 2]

false 15

4 1807.92 24

[1, 2]

true 15

5 2103.85 26

[0, 3]

false 20

6 1954.17 24

[1, 3]

true 20

7 3163.75 32

[0, 4]

false 50

8 1418.75 24

[1, 4]

true 50

9 6483.80 50

[0, 5]

false 100

10 1506.00 25

[1, 5]

true 100

11 8788.68 265

[0, 6]

false 150

12 940.83 24

[1, 6]

true 150

13 7896.42 81

nResamples

sequence length

[0, 0]

1 5

0 471.25 16

[1, 0]

2 5

1 553.13 16

[2, 0]

3 5

2 673.13 16

[0, 1]

1 10

3 1937.06 17

[1, 1]

2 10

4 1968.75 16

[2, 1]

3 10

5 1572.50 16

[0, 2]

1 15

6 2402.22 18

[1, 2]

2 15

7 1595.00 16

[2, 2]

3 15

8 1833.13 16

[0, 3]

1 20

9 3380.48 21

[1, 3]

2 20

10 2443.33 18

[2, 3]

3 20

11 1951.18 17

[0, 4]

1 50

12 5934.33 30

[1, 4]

2 50

13 3645.00 22

[2, 4]

3 50

14 4546.36 22

[0, 5]

1 100

15 8496.37 204

[1, 5]

2 100

16 7618.26 46

[2, 5]

3 100

17 7073.75 40

[0, 6]

1 150

18 6981.92 52

[1, 6]

2 150

19 5871.79 28

[2, 6]

3 150

20 5388.80 25

Point Mutation Rate

Flip at least one bit?

Use shift Buffer?

nResamples

sequence length

[0, 0, 0, 0, 0]

0.0 false false 1 5

0 920.00 1

[1, 0, 0, 0, 0]

1.0 false false 1 5

1 240.00 1

[2, 0, 0, 0, 0]

2.0 false false 1 5

2 730.00 1

[3, 0, 0, 0, 0]

3.0 false false 1 5

3 340.00 1

[0, 1, 0, 0, 0]

0.0 true false 1 5

4 -20.00 1

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1.0 true false 1 5

5 500.00 1

[2, 1, 0, 0, 0]

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6 1080.00 1

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3.0 true false 1 5

7 330.00 1

[0, 0, 1, 0, 0]

0.0 false true 1 5

8 1110.00 1

[1, 0, 1, 0, 0]

1.0 false true 1 5

9 -210.00 1

[2, 0, 1, 0, 0]

2.0 false true 1 5

10 -180.00 1

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3.0 false true 1 5

11 50.00 1

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0.0 true true 1 5

12 70.00 1

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1.0 true true 1 5

13 480.00 1

[2, 1, 1, 0, 0]

2.0 true true 1 5

14 1330.00 1

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3.0 true true 1 5

15 770.00 1

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16 -30.00 1

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1.0 false false 2 5

17 1110.00 1

[2, 0, 0, 1, 0]

2.0 false false 2 5

18 200.00 1

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3.0 false false 2 5

19 -140.00 1

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20 710.00 1

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1.0 true false 2 5

21 410.00 1

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2.0 true false 2 5

22 640.00 1

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23 200.00 1

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24 -400.00 1

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25 200.00 1

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2.0 false true 2 5

26 1040.00 1

[3, 0, 1, 1, 0]

3.0 false true 2 5

27 2550.00 1

[0, 1, 1, 1, 0]

0.0 true true 2 5

28 690.00 1

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1.0 true true 2 5

29 160.00 1

[2, 1, 1, 1, 0]

2.0 true true 2 5

30 570.00 1

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31 940.00 1

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32 370.00 1

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33 570.00 1

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34 850.00 1

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35 800.00 1

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36 3580.00 1

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37 1290.00 1

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39 300.00 1

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40 240.00 1

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41 150.00 1

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42 240.00 1

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43 430.00 1

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44 -30.00 1

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1.0 true true 3 5

45 160.00 1

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2.0 true true 3 5

46 200.00 1

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3.0 true true 3 5

47 480.00 1

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48 2060.00 1

[1, 0, 0, 0, 1]

1.0 false false 1 10

49 2830.00 1

[2, 0, 0, 0, 1]

2.0 false false 1 10

50 1260.00 1

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3.0 false false 1 10

51 1310.00 1

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52 890.00 1

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1.0 true false 1 10

53 520.00 1

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2.0 true false 1 10

54 1850.00 1

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55 2410.00 1

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56 4020.00 1

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57 3570.00 1

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2.0 false true 1 10

58 1100.00 1

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3.0 false true 1 10

59 820.00 1

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60 2120.00 1

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61 2590.00 1

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62 620.00 1

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63 2480.00 2

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64 1660.00 1

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65 1950.00 1

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2.0 false false 2 10

66 1900.00 1

[3, 0, 0, 1, 1]

3.0 false false 2 10

67 1640.00 1

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0.0 true false 2 10

68 2000.00 1

[1, 1, 0, 1, 1]

1.0 true false 2 10

69 1990.00 1

[2, 1, 0, 1, 1]

2.0 true false 2 10

70 3570.00 1

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71 5710.00 1

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75 520.00 1

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79 1990.00 1

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80 100.00 1

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81 1120.00 1

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2.0 false false 3 10

82 670.00 1

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3.0 false false 3 10

83 390.00 1

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84 1530.00 1

[1, 1, 0, 2, 1]

1.0 true false 3 10

85 3580.00 1

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86 3570.00 1

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87 3280.00 1

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88 -450.00 1

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1.0 false true 3 10

89 1460.00 1

[2, 0, 1, 2, 1]

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90 2670.00 1

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91 1880.00 1

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92 90.00 1

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1.0 true true 3 10

93 2590.00 1

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94 340.00 1

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95 2340.00 1

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96 1120.00 1

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2.0 false false 1 15

98 1300.00 1

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3.0 false false 1 15

99 2630.00 1

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103 1390.00 1

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104 460.00 1

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105 2650.00 1

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106 2170.00 1

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118 1890.00 1

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122 990.00 1

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125 1970.00 1

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128 3470.00 1

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129 700.00 1

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131 2000.00 1

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136 3320.00 1

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137 270.00 1

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138 3740.00 1

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3.0 false true 3 15

139 3430.00 1

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140 1590.00 1

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141 1800.00 1

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143 1900.00 1

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144 900.00 1

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1.0 false false 1 20

145 3260.00 1

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2.0 false false 1 20

146 5300.00 1

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3.0 false false 1 20

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148 1870.00 1

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1.0 true false 1 20

149 1800.00 1

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150 3720.00 1

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151 4060.00 1

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152 610.00 1

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155 3870.00 2

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156 3800.00 1

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157 6000.00 2

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163 2540.00 1

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164 3160.00 1

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1.0 true false 2 20

165 3180.00 1

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166 1020.00 1

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3.0 true false 2 20

167 1210.00 1

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168 1100.00 1

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169 4000.00 1

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170 3190.00 1

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171 3970.00 1

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172 1190.00 1

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173 6480.00 1

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174 1510.00 2

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175 2530.00 2

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176 350.00 1

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1.0 false false 3 20

177 460.00 1

[2, 0, 0, 2, 3]

2.0 false false 3 20

178 2560.00 1

[3, 0, 0, 2, 3]

3.0 false false 3 20

179 1270.00 1

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0.0 true false 3 20

180 770.00 1

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1.0 true false 3 20

181 1350.00 1

[2, 1, 0, 2, 3]

2.0 true false 3 20

182 1060.00 1

[3, 1, 0, 2, 3]

3.0 true false 3 20

183 740.00 1

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184 -460.00 1

[1, 0, 1, 2, 3]

1.0 false true 3 20

185 3860.00 1

[2, 0, 1, 2, 3]

2.0 false true 3 20

186 3340.00 1

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3.0 false true 3 20

187 7050.00 1

[0, 1, 1, 2, 3]

0.0 true true 3 20

188 790.00 1

[1, 1, 1, 2, 3]

1.0 true true 3 20

189 1240.00 1

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190 2200.00 1

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191 3295.00 2

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192 980.00 1

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193 110.00 1

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2.0 false false 1 50

194 640.00 1

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3.0 false false 1 50

195 7560.00 1

[0, 1, 0, 0, 4]

0.0 true false 1 50

196 2850.00 1

[1, 1, 0, 0, 4]

1.0 true false 1 50

197 2650.00 1

[2, 1, 0, 0, 4]

2.0 true false 1 50

198 820.00 1

[3, 1, 0, 0, 4]

3.0 true false 1 50

199 1120.00 1

[0, 0, 1, 0, 4]

0.0 false true 1 50

200 3740.00 1

[1, 0, 1, 0, 4]

1.0 false true 1 50

201 5010.00 2

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2.0 false true 1 50

202 9120.00 2

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203 7385.00 2

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204 8340.00 2

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1.0 true true 1 50

205 8993.33 3

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2.0 true true 1 50

206 6467.50 4

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3.0 true true 1 50

207 7500.00 6

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0.0 false false 2 50

208 570.00 1

[1, 0, 0, 1, 4]

1.0 false false 2 50

209 700.00 1

[2, 0, 0, 1, 4]

2.0 false false 2 50

210 2410.00 1

[3, 0, 0, 1, 4]

3.0 false false 2 50

211 1380.00 1

[0, 1, 0, 1, 4]

0.0 true false 2 50

212 1690.00 1

[1, 1, 0, 1, 4]

1.0 true false 2 50

213 1610.00 1

[2, 1, 0, 1, 4]

2.0 true false 2 50

214 190.00 1

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3.0 true false 2 50

215 500.00 1

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216 -140.00 1

[1, 0, 1, 1, 4]

1.0 false true 2 50

217 5670.00 2

[2, 0, 1, 1, 4]

2.0 false true 2 50

218 1190.00 1

[3, 0, 1, 1, 4]

3.0 false true 2 50

219 6375.00 2

[0, 1, 1, 1, 4]

0.0 true true 2 50

220 7420.00 1

[1, 1, 1, 1, 4]

1.0 true true 2 50

221 3990.00 2

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222 4760.00 2

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223 7026.67 3

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224 320.00 1

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225 1480.00 1

[2, 0, 0, 2, 4]

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226 1460.00 1

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227 740.00 1

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228 900.00 1

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1.0 true false 3 50

229 660.00 1

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2.0 true false 3 50

230 2500.00 1

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3.0 true false 3 50

231 210.00 1

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0.0 false true 3 50

232 190.00 1

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233 4190.00 1

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234 5950.00 2

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235 7350.00 2

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236 4400.00 1

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1.0 true true 3 50

237 7905.00 2

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238 9345.00 2

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239 7290.00 3

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240 1810.00 1

[1, 0, 0, 0, 5]

1.0 false false 1 100

241 480.00 1

[2, 0, 0, 0, 5]

2.0 false false 1 100

242 3620.00 1

[3, 0, 0, 0, 5]

3.0 false false 1 100

243 1570.00 1

[0, 1, 0, 0, 5]

0.0 true false 1 100

244 1590.00 1

[1, 1, 0, 0, 5]

1.0 true false 1 100

245 1120.00 1

[2, 1, 0, 0, 5]

2.0 true false 1 100

246 2610.00 2

[3, 1, 0, 0, 5]

3.0 true false 1 100

247 1250.00 1

[0, 0, 1, 0, 5]

0.0 false true 1 100

248 -220.00 1

[1, 0, 1, 0, 5]

1.0 false true 1 100

249 8826.67 3

[2, 0, 1, 0, 5]

2.0 false true 1 100

250 9420.00 3

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3.0 false true 1 100

251 8340.00 4

[0, 1, 1, 0, 5]

0.0 true true 1 100

252 9670.00 3

[1, 1, 1, 0, 5]

1.0 true true 1 100

253 7330.00 8

[2, 1, 1, 0, 5]

2.0 true true 1 100

254 8785.00 72

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3.0 true true 1 100

255 8995.54 101

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256 1010.00 1

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257 2300.00 1

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2.0 false false 2 100

258 1740.00 1

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3.0 false false 2 100

259 650.00 1

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260 1730.00 1

[1, 1, 0, 1, 5]

1.0 true false 2 100

261 1710.00 1

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2.0 true false 2 100

262 3190.00 1

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3.0 true false 2 100

263 620.00 1

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264 -100.00 1

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265 8875.00 2

[2, 0, 1, 1, 5]

2.0 false true 2 100

266 9045.00 2

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3.0 false true 2 100

267 7960.00 3

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268 8720.00 2

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269 8862.50 4

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270 9258.33 6

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271 9412.78 18

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272 1390.00 1

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273 1350.00 1

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2.0 false false 3 100

274 340.00 1

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3.0 false false 3 100

275 1730.00 1

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276 780.00 1

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1.0 true false 3 100

277 1280.00 1

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2.0 true false 3 100

278 950.00 1

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3.0 true false 3 100

279 220.00 1

[0, 0, 1, 2, 5]

0.0 false true 3 100

280 270.00 1

[1, 0, 1, 2, 5]

1.0 false true 3 100

281 7435.00 2

[2, 0, 1, 2, 5]

2.0 false true 3 100

282 8600.00 2

[3, 0, 1, 2, 5]

3.0 false true 3 100

283 8746.67 3

[0, 1, 1, 2, 5]

0.0 true true 3 100

284 6265.00 2

[1, 1, 1, 2, 5]

1.0 true true 3 100

285 9280.00 4

[2, 1, 1, 2, 5]

2.0 true true 3 100

286 9426.00 5

[3, 1, 1, 2, 5]

3.0 true true 3 100

287 9196.15 13

[0, 0, 0, 0, 6]

0.0 false false 1 150

288 960.00 1

[1, 0, 0, 0, 6]

1.0 false false 1 150

289 1090.00 1

[2, 0, 0, 0, 6]

2.0 false false 1 150

290 630.00 1

[3, 0, 0, 0, 6]

3.0 false false 1 150

291 730.00 1

[0, 1, 0, 0, 6]

0.0 true false 1 150

292 510.00 1

[1, 1, 0, 0, 6]

1.0 true false 1 150

293 260.00 1

[2, 1, 0, 0, 6]

2.0 true false 1 150

294 1460.00 1

[3, 1, 0, 0, 6]

3.0 true false 1 150

295 750.00 1

[0, 0, 1, 0, 6]

0.0 false true 1 150

296 2390.00 1

[1, 0, 1, 0, 6]

1.0 false true 1 150

297 7865.00 2

[2, 0, 1, 0, 6]

2.0 false true 1 150

298 6730.00 2

[3, 0, 1, 0, 6]

3.0 false true 1 150

299 8760.00 3

[0, 1, 1, 0, 6]

0.0 true true 1 150

300 9035.00 2

[1, 1, 1, 0, 6]

1.0 true true 1 150

301 8052.50 4

[2, 1, 1, 0, 6]

2.0 true true 1 150

302 8486.25 8

[3, 1, 1, 0, 6]

3.0 true true 1 150

303 8210.91 22

[0, 0, 0, 1, 6]

0.0 false false 2 150

304 250.00 1

[1, 0, 0, 1, 6]

1.0 false false 2 150

305 2060.00 1

[2, 0, 0, 1, 6]

2.0 false false 2 150

306 1440.00 1

[3, 0, 0, 1, 6]

3.0 false false 2 150

307 1150.00 1

[0, 1, 0, 1, 6]

0.0 true false 2 150

308 470.00 1

[1, 1, 0, 1, 6]

1.0 true false 2 150

309 1190.00 1

[2, 1, 0, 1, 6]

2.0 true false 2 150

310 520.00 1

[3, 1, 0, 1, 6]

3.0 true false 2 150

311 1370.00 1

[0, 0, 1, 1, 6]

0.0 false true 2 150

312 -50.00 1

[1, 0, 1, 1, 6]

1.0 false true 2 150

313 7920.00 2

[2, 0, 1, 1, 6]

2.0 false true 2 150

314 8595.00 2

[3, 0, 1, 1, 6]

3.0 false true 2 150

315 6990.00 2

[0, 1, 1, 1, 6]

0.0 true true 2 150

316 8920.00 2

[1, 1, 1, 1, 6]

1.0 true true 2 150

317 8296.67 3

[2, 1, 1, 1, 6]

2.0 true true 2 150

318 8833.33 3

[3, 1, 1, 1, 6]

3.0 true true 2 150

319 7954.00 5

[0, 0, 0, 2, 6]

0.0 false false 3 150

320 1090.00 1

[1, 0, 0, 2, 6]

1.0 false false 3 150

321 1200.00 1

[2, 0, 0, 2, 6]

2.0 false false 3 150

322 1710.00 1

[3, 0, 0, 2, 6]

3.0 false false 3 150

323 1290.00 1

[0, 1, 0, 2, 6]

0.0 true false 3 150

324 -50.00 1

[1, 1, 0, 2, 6]

1.0 true false 3 150

325 1650.00 1

[2, 1, 0, 2, 6]

2.0 true false 3 150

326 510.00 1

[3, 1, 0, 2, 6]

3.0 true false 3 150

327 340.00 1

[0, 0, 1, 2, 6]

0.0 false true 3 150

328 1170.00 1

[1, 0, 1, 2, 6]

1.0 false true 3 150

329 8660.00 2

[2, 0, 1, 2, 6]

2.0 false true 3 150

330 1960.00 1

[3, 0, 1, 2, 6]

3.0 false true 3 150

331 8810.00 2

[0, 1, 1, 2, 6]

0.0 true true 3 150

332 2180.00 1

[1, 1, 1, 2, 6]

1.0 true true 3 150

333 8546.67 3

[2, 1, 1, 2, 6]

2.0 true true 3 150

334 8366.67 3

[3, 1, 1, 2, 6]

3.0 true true 3 150

335 8997.50 4

GridModel has 16 tuples.

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 1130.0

max = 10160.0

ave = 8827.1

sd = 1333.1206610692436

se = 133.31206610692436

sum = 882710.0

sumsq = 7.9677133E9

n = 100

Checks complete: 3606831 ms elapsed

Solution: [3, 1, 1, 0, 5]

Search space has 5 dimensions

Point Mutation Rate

[0]

0.0

0 2400.00 92

[1]

1.0

1 4389.24 119

[2]

2.0

2 7166.14 350

[3]

3.0

3 7519.96 447

Flip at least one bit?

[0]

false

0 3298.51 202

[1]

true

1 7377.66 806

Use shift Buffer?

[0]

false

0 1459.59 171

[1]

true

1 7602.27 837

nResamples

[0]

1

0 7554.46 659

[1]

2

1 5050.52 191

[2]

3

2 4238.29 158

sequence length

[0]

5

0 557.55 49

[1]

10

1 1799.60 50

[2]

15

2 1930.20 51

[3]

20

3 2645.36 56

[4]

50

4 5062.66 79

[5]

100

5 8426.24 542

[6]

150

6 7081.99 181

Point Mutation Rate

Flip at least one bit?

[0, 0]

0.0 false

0 879.05 42

[1, 0]

1.0 false

1 3638.43 51

[2, 0]

2.0 false

2 3761.73 52

[3, 0]

3.0 false

3 4354.56 57

[0, 1]

0.0 true

4 3677.60 50

[1, 1]

1.0 true

5 4952.35 68

[2, 1]

2.0 true

6 7760.20 298

[3, 1]

3.0 true

7 7982.59 390

Point Mutation Rate

Use shift Buffer?

[0, 0]

0.0 false

0 1238.10 42

[1, 0]

1.0 false

1 1457.62 42

[2, 0]

2.0 false

2 1690.45 44

[3, 0]

3.0 false

3 1441.63 43

[0, 1]

0.0 true

4 3376.00 50

[1, 1]

1.0 true

5 5988.31 77

[2, 1]

2.0 true

6 7953.50 306

[3, 1]

3.0 true

7 8166.91 404

Point Mutation Rate

nResamples

[0, 0]

0.0 1

0 3484.55 33

[1, 0]

1.0 1

1 4826.96 46

[2, 0]

2.0 1

2 7915.84 257

[3, 0]

3.0 1

3 8071.18 323

[0, 1]

0.0 2

4 2138.67 30

[1, 1]

1.0 2

5 4175.41 37

[2, 1]

2.0 2

6 5372.55 51

[3, 1]

3.0 2

7 6465.75 73

[0, 2]

0.0 3

8 1436.21 29

[1, 2]

1.0 3

9 4049.72 36

[2, 2]

2.0 3

10 4756.67 42

[3, 2]

3.0 3

11 5537.84 51

Point Mutation Rate

sequence length

[0, 0]

0.0 5

0 600.83 12

[1, 0]

1.0 5

1 421.67 12

[2, 0]

2.0 5

2 615.38 13

[3, 0]

3.0 5

3 587.50 12

[0, 1]

0.0 10

4 1240.00 12

[1, 1]

1.0 10

5 2048.33 12

[2, 1]

2.0 10

6 1790.00 13

[3, 1]

3.0 10

7 2096.15 13

[0, 2]

0.0 15

8 2061.67 12

[1, 2]

1.0 15

9 1979.17 12

[2, 2]

2.0 15

10 1847.14 14

[3, 2]

3.0 15

11 1853.08 13

[0, 3]

0.0 20

12 1250.00 12

[1, 3]

1.0 20

13 3050.77 13

[2, 3]

2.0 20

14 2812.00 15

[3, 3]

3.0 20

15 3206.25 16

[0, 4]

0.0 50

16 3046.15 13

[1, 4]

1.0 50

17 4640.56 18

[2, 4]

2.0 50

18 5470.45 22

[3, 4]

3.0 50

19 6018.08 26

[0, 5]

0.0 100

20 4202.50 16

[1, 5]

1.0 100

21 6846.55 29

[2, 5]

2.0 100

22 8637.45 216

[3, 5]

3.0 100

23 8667.40 281

[0, 6]

0.0 150

24 3475.33 15

[1, 6]

1.0 150

25 6399.57 23

[2, 6]

2.0 150

26 7417.54 57

[3, 6]

3.0 150

27 7671.16 86

Flip at least one bit?

Use shift Buffer?

[0, 0]

false false

0 1378.10 84

[1, 0]

true false

1 1538.28 87

[0, 1]

false true

2 4665.59 118

[1, 1]

true true

3 8084.23 719

Flip at least one bit?

nResamples

[0, 0]

false 1

0 3891.37 73

[1, 0]

true 1

1 8010.78 586

[0, 1]

false 2

2 2975.69 65

[1, 1]

true 2

3 6120.87 126

[0, 2]

false 3

4 2950.16 64

[1, 2]

true 3

5 5115.32 94

Flip at least one bit?

sequence length

[0, 0]

false 5

0 465.83 24

[1, 0]

true 5

1 645.60 25

[0, 1]

false 10

2 1433.75 24

[1, 1]

true 10

3 2137.31 26

[0, 2]

false 15

4 1848.75 24

[1, 2]

true 15

5 2002.59 27

[0, 3]

false 20

6 2505.00 26

[1, 3]

true 20

7 2767.00 30

[0, 4]

false 50

8 3910.97 31

[1, 4]

true 50

9 5806.46 48

[0, 5]

false 100

10 5837.00 40

[1, 5]

true 100

11 8632.55 502

[0, 6]

false 150

12 4742.12 33

[1, 6]

true 150

13 7603.72 148

Use shift Buffer?

nResamples

[0, 0]

false 1

0 1691.36 59

[1, 0]

true 1

1 8131.00 600

[0, 1]

false 2

2 1466.61 56

[1, 1]

true 2

3 6537.19 135

[0, 2]

false 3

4 1208.39 56

[1, 2]

true 3

5 5901.76 102

Use shift Buffer?

sequence length

[0, 0]

false 5

0 671.67 24

[1, 0]

true 5

1 448.00 25

[0, 1]

false 10

2 1991.25 24

[1, 1]

true 10

3 1622.69 26

[0, 2]

false 15

4 1749.60 25

[1, 2]

true 15

5 2103.85 26

[0, 3]

false 20

6 1954.17 24

[1, 3]

true 20

7 3163.75 32

[0, 4]

false 50

8 1418.75 24

[1, 4]

true 50

9 6652.73 55

[0, 5]

false 100

10 1477.31 26

[1, 5]

true 100

11 8776.38 516

[0, 6]

false 150

12 940.83 24

[1, 6]

true 150

13 8020.76 157

nResamples

sequence length

[0, 0]

1 5

0 452.94 17

[1, 0]

2 5

1 553.13 16

[2, 0]

3 5

2 673.13 16

[0, 1]

1 10

3 1851.11 18

[1, 1]

2 10

4 1968.75 16

[2, 1]

3 10

5 1572.50 16

[0, 2]

1 15

6 2294.21 19

[1, 2]

2 15

7 1595.00 16

[2, 2]

3 15

8 1833.13 16

[0, 3]

1 20

9 3380.48 21

[1, 3]

2 20

10 2443.33 18

[2, 3]

3 20

11 1951.18 17

[0, 4]

1 50

12 6201.47 34

[1, 4]

2 50

13 3645.00 22

[2, 4]

3 50

14 4735.22 23

[0, 5]

1 100

15 8595.93 428

[1, 5]

2 100

16 8148.31 71

[2, 5]

3 100

17 7196.05 43

[0, 6]

1 150

18 7646.56 122

[1, 6]

2 150

19 6127.50 32

[2, 6]

3 150

20 5662.22 27

Point Mutation Rate

Flip at least one bit?

Use shift Buffer?

nResamples

sequence length

[0, 0, 0, 0, 0]

0.0 false false 1 5

0 920.00 1

[1, 0, 0, 0, 0]

1.0 false false 1 5

1 240.00 1

[2, 0, 0, 0, 0]

2.0 false false 1 5

2 730.00 1

[3, 0, 0, 0, 0]

3.0 false false 1 5

3 340.00 1

[0, 1, 0, 0, 0]

0.0 true false 1 5

4 -20.00 1

[1, 1, 0, 0, 0]

1.0 true false 1 5

5 500.00 1

[2, 1, 0, 0, 0]

2.0 true false 1 5

6 1080.00 1

[3, 1, 0, 0, 0]

3.0 true false 1 5

7 330.00 1

[0, 0, 1, 0, 0]

0.0 false true 1 5

8 1110.00 1

[1, 0, 1, 0, 0]

1.0 false true 1 5

9 -210.00 1

[2, 0, 1, 0, 0]

2.0 false true 1 5

10 -180.00 1

[3, 0, 1, 0, 0]

3.0 false true 1 5

11 50.00 1

[0, 1, 1, 0, 0]

0.0 true true 1 5

12 70.00 1

[1, 1, 1, 0, 0]

1.0 true true 1 5

13 480.00 1

[2, 1, 1, 0, 0]

2.0 true true 1 5

14 745.00 2

[3, 1, 1, 0, 0]

3.0 true true 1 5

15 770.00 1

[0, 0, 0, 1, 0]

0.0 false false 2 5

16 -30.00 1

[1, 0, 0, 1, 0]

1.0 false false 2 5

17 1110.00 1

[2, 0, 0, 1, 0]

2.0 false false 2 5

18 200.00 1

[3, 0, 0, 1, 0]

3.0 false false 2 5

19 -140.00 1

[0, 1, 0, 1, 0]

0.0 true false 2 5

20 710.00 1

[1, 1, 0, 1, 0]

1.0 true false 2 5

21 410.00 1

[2, 1, 0, 1, 0]

2.0 true false 2 5

22 640.00 1

[3, 1, 0, 1, 0]

3.0 true false 2 5

23 200.00 1

[0, 0, 1, 1, 0]

0.0 false true 2 5

24 -400.00 1

[1, 0, 1, 1, 0]

1.0 false true 2 5

25 200.00 1

[2, 0, 1, 1, 0]

2.0 false true 2 5

26 1040.00 1

[3, 0, 1, 1, 0]

3.0 false true 2 5

27 2550.00 1

[0, 1, 1, 1, 0]

0.0 true true 2 5

28 690.00 1

[1, 1, 1, 1, 0]

1.0 true true 2 5

29 160.00 1

[2, 1, 1, 1, 0]

2.0 true true 2 5

30 570.00 1

[3, 1, 1, 1, 0]

3.0 true true 2 5

31 940.00 1

[0, 0, 0, 2, 0]

0.0 false false 3 5

32 370.00 1

[1, 0, 0, 2, 0]

1.0 false false 3 5

33 570.00 1

[2, 0, 0, 2, 0]

2.0 false false 3 5

34 850.00 1

[3, 0, 0, 2, 0]

3.0 false false 3 5

35 800.00 1

[0, 1, 0, 2, 0]

0.0 true false 3 5

36 3580.00 1

[1, 1, 0, 2, 0]

1.0 true false 3 5

37 1290.00 1

[2, 1, 0, 2, 0]

2.0 true false 3 5

38 1140.00 1

[3, 1, 0, 2, 0]

3.0 true false 3 5

39 300.00 1

[0, 0, 1, 2, 0]

0.0 false true 3 5

40 240.00 1

[1, 0, 1, 2, 0]

1.0 false true 3 5

41 150.00 1

[2, 0, 1, 2, 0]

2.0 false true 3 5

42 240.00 1

[3, 0, 1, 2, 0]

3.0 false true 3 5

43 430.00 1

[0, 1, 1, 2, 0]

0.0 true true 3 5

44 -30.00 1

[1, 1, 1, 2, 0]

1.0 true true 3 5

45 160.00 1

[2, 1, 1, 2, 0]

2.0 true true 3 5

46 200.00 1

[3, 1, 1, 2, 0]

3.0 true true 3 5

47 480.00 1

[0, 0, 0, 0, 1]

0.0 false false 1 10

48 2060.00 1

[1, 0, 0, 0, 1]

1.0 false false 1 10

49 2830.00 1

[2, 0, 0, 0, 1]

2.0 false false 1 10

50 1260.00 1

[3, 0, 0, 0, 1]

3.0 false false 1 10

51 1310.00 1

[0, 1, 0, 0, 1]

0.0 true false 1 10

52 890.00 1

[1, 1, 0, 0, 1]

1.0 true false 1 10

53 520.00 1

[2, 1, 0, 0, 1]

2.0 true false 1 10

54 1850.00 1

[3, 1, 0, 0, 1]

3.0 true false 1 10

55 2410.00 1

[0, 0, 1, 0, 1]

0.0 false true 1 10

56 4020.00 1

[1, 0, 1, 0, 1]

1.0 false true 1 10

57 3570.00 1

[2, 0, 1, 0, 1]

2.0 false true 1 10

58 1100.00 1

[3, 0, 1, 0, 1]

3.0 false true 1 10

59 820.00 1

[0, 1, 1, 0, 1]

0.0 true true 1 10

60 2120.00 1

[1, 1, 1, 0, 1]

1.0 true true 1 10

61 2590.00 1

[2, 1, 1, 0, 1]

2.0 true true 1 10

62 505.00 2

[3, 1, 1, 0, 1]

3.0 true true 1 10

63 2480.00 2

[0, 0, 0, 1, 1]

0.0 false false 2 10

64 1660.00 1

[1, 0, 0, 1, 1]

1.0 false false 2 10

65 1950.00 1

[2, 0, 0, 1, 1]

2.0 false false 2 10

66 1900.00 1

[3, 0, 0, 1, 1]

3.0 false false 2 10

67 1640.00 1

[0, 1, 0, 1, 1]

0.0 true false 2 10

68 2000.00 1

[1, 1, 0, 1, 1]

1.0 true false 2 10

69 1990.00 1

[2, 1, 0, 1, 1]

2.0 true false 2 10

70 3570.00 1

[3, 1, 0, 1, 1]

3.0 true false 2 10

71 5710.00 1

[0, 0, 1, 1, 1]

0.0 false true 2 10

72 -280.00 1

[1, 0, 1, 1, 1]

1.0 false true 2 10

73 1480.00 1

[2, 0, 1, 1, 1]

2.0 false true 2 10

74 730.00 1

[3, 0, 1, 1, 1]

3.0 false true 2 10

75 520.00 1

[0, 1, 1, 1, 1]

0.0 true true 2 10

76 1140.00 1

[1, 1, 1, 1, 1]

1.0 true true 2 10

77 900.00 1

[2, 1, 1, 1, 1]

2.0 true true 2 10

78 4600.00 1

[3, 1, 1, 1, 1]

3.0 true true 2 10

79 1990.00 1

[0, 0, 0, 2, 1]

0.0 false false 3 10

80 100.00 1

[1, 0, 0, 2, 1]

1.0 false false 3 10

81 1120.00 1

[2, 0, 0, 2, 1]

2.0 false false 3 10

82 670.00 1

[3, 0, 0, 2, 1]

3.0 false false 3 10

83 390.00 1

[0, 1, 0, 2, 1]

0.0 true false 3 10

84 1530.00 1

[1, 1, 0, 2, 1]

1.0 true false 3 10

85 3580.00 1

[2, 1, 0, 2, 1]

2.0 true false 3 10

86 3570.00 1

[3, 1, 0, 2, 1]

3.0 true false 3 10

87 3280.00 1

[0, 0, 1, 2, 1]

0.0 false true 3 10

88 -450.00 1

[1, 0, 1, 2, 1]

1.0 false true 3 10

89 1460.00 1

[2, 0, 1, 2, 1]

2.0 false true 3 10

90 2670.00 1

[3, 0, 1, 2, 1]

3.0 false true 3 10

91 1880.00 1

[0, 1, 1, 2, 1]

0.0 true true 3 10

92 90.00 1

[1, 1, 1, 2, 1]

1.0 true true 3 10

93 2590.00 1

[2, 1, 1, 2, 1]

2.0 true true 3 10

94 340.00 1

[3, 1, 1, 2, 1]

3.0 true true 3 10

95 2340.00 1

[0, 0, 0, 0, 2]

0.0 false false 1 15

96 1120.00 1

[1, 0, 0, 0, 2]

1.0 false false 1 15

97 3770.00 1

[2, 0, 0, 0, 2]

2.0 false false 1 15

98 1300.00 1

[3, 0, 0, 0, 2]

3.0 false false 1 15

99 2630.00 1

[0, 1, 0, 0, 2]

0.0 true false 1 15

100 2810.00 1

[1, 1, 0, 0, 2]

1.0 true false 1 15

101 1130.00 1

[2, 1, 0, 0, 2]

2.0 true false 1 15

102 2740.00 2

[3, 1, 0, 0, 2]

3.0 true false 1 15

103 1390.00 1

[0, 0, 1, 0, 2]

0.0 false true 1 15

104 460.00 1

[1, 0, 1, 0, 2]

1.0 false true 1 15

105 2650.00 1

[2, 0, 1, 0, 2]

2.0 false true 1 15

106 2170.00 1

[3, 0, 1, 0, 2]

3.0 false true 1 15

107 860.00 1

[0, 1, 1, 0, 2]

0.0 true true 1 15

108 6580.00 1

[1, 1, 1, 0, 2]

1.0 true true 1 15

109 1900.00 1

[2, 1, 1, 0, 2]

2.0 true true 1 15

110 2620.00 2

[3, 1, 1, 0, 2]

3.0 true true 1 15

111 2050.00 2

[0, 0, 0, 1, 2]

0.0 false false 2 15

112 390.00 1

[1, 0, 0, 1, 2]

1.0 false false 2 15

113 1880.00 1

[2, 0, 0, 1, 2]

2.0 false false 2 15

114 1010.00 1

[3, 0, 0, 1, 2]

3.0 false false 2 15

115 1510.00 1

[0, 1, 0, 1, 2]

0.0 true false 2 15

116 2400.00 1

[1, 1, 0, 1, 2]

1.0 true false 2 15

117 1160.00 1

[2, 1, 0, 1, 2]

2.0 true false 2 15

118 1890.00 1

[3, 1, 0, 1, 2]

3.0 true false 2 15

119 1950.00 1

[0, 0, 1, 1, 2]

0.0 false true 2 15

120 -210.00 1

[1, 0, 1, 1, 2]

1.0 false true 2 15

121 3900.00 1

[2, 0, 1, 1, 2]

2.0 false true 2 15

122 990.00 1

[3, 0, 1, 1, 2]

3.0 false true 2 15

123 2780.00 1

[0, 1, 1, 1, 2]

0.0 true true 2 15

124 1590.00 1

[1, 1, 1, 1, 2]

1.0 true true 2 15

125 1970.00 1

[2, 1, 1, 1, 2]

2.0 true true 2 15

126 1490.00 1

[3, 1, 1, 1, 2]

3.0 true true 2 15

127 820.00 1

[0, 0, 0, 2, 2]

0.0 false false 3 15

128 3470.00 1

[1, 0, 0, 2, 2]

1.0 false false 3 15

129 700.00 1

[2, 0, 0, 2, 2]

2.0 false false 3 15

130 230.00 1

[3, 0, 0, 2, 2]

3.0 false false 3 15

131 2000.00 1

[0, 1, 0, 2, 2]

0.0 true false 3 15

132 1220.00 1

[1, 1, 0, 2, 2]

1.0 true false 3 15

133 2620.00 1

[2, 1, 0, 2, 2]

2.0 true false 3 15

134 960.00 1

[3, 1, 0, 2, 2]

3.0 true false 3 15

135 720.00 1

[0, 0, 1, 2, 2]

0.0 false true 3 15

136 3320.00 1

[1, 0, 1, 2, 2]

1.0 false true 3 15

137 270.00 1

[2, 0, 1, 2, 2]

2.0 false true 3 15

138 3740.00 1

[3, 0, 1, 2, 2]

3.0 false true 3 15

139 3430.00 1

[0, 1, 1, 2, 2]

0.0 true true 3 15

140 1590.00 1

[1, 1, 1, 2, 2]

1.0 true true 3 15

141 1800.00 1

[2, 1, 1, 2, 2]

2.0 true true 3 15

142 1360.00 1

[3, 1, 1, 2, 2]

3.0 true true 3 15

143 1900.00 1

[0, 0, 0, 0, 3]

0.0 false false 1 20

144 900.00 1

[1, 0, 0, 0, 3]

1.0 false false 1 20

145 3260.00 1

[2, 0, 0, 0, 3]

2.0 false false 1 20

146 5300.00 1

[3, 0, 0, 0, 3]

3.0 false false 1 20

147 1460.00 1

[0, 1, 0, 0, 3]

0.0 true false 1 20

148 1870.00 1

[1, 1, 0, 0, 3]

1.0 true false 1 20

149 1800.00 1

[2, 1, 0, 0, 3]

2.0 true false 1 20

150 3720.00 1

[3, 1, 0, 0, 3]

3.0 true false 1 20

151 4060.00 1

[0, 0, 1, 0, 3]

0.0 false true 1 20

152 610.00 1

[1, 0, 1, 0, 3]

1.0 false true 1 20

153 1130.00 1

[2, 0, 1, 0, 3]

2.0 false true 1 20

154 3320.00 2

[3, 0, 1, 0, 3]

3.0 false true 1 20

155 3870.00 2

[0, 1, 1, 0, 3]

0.0 true true 1 20

156 3800.00 1

[1, 1, 1, 0, 3]

1.0 true true 1 20

157 6000.00 2

[2, 1, 1, 0, 3]

2.0 true true 1 20

158 3545.00 2

[3, 1, 1, 0, 3]

3.0 true true 1 20

159 4805.00 2

[0, 0, 0, 1, 3]

0.0 false false 2 20

160 920.00 1

[1, 0, 0, 1, 3]

1.0 false false 2 20

161 900.00 1

[2, 0, 0, 1, 3]

2.0 false false 2 20

162 3040.00 1

[3, 0, 0, 1, 3]

3.0 false false 2 20

163 2540.00 1

[0, 1, 0, 1, 3]

0.0 true false 2 20

164 3160.00 1

[1, 1, 0, 1, 3]

1.0 true false 2 20

165 3180.00 1

[2, 1, 0, 1, 3]

2.0 true false 2 20

166 1020.00 1

[3, 1, 0, 1, 3]

3.0 true false 2 20

167 1210.00 1

[0, 0, 1, 1, 3]

0.0 false true 2 20

168 1100.00 1

[1, 0, 1, 1, 3]

1.0 false true 2 20

169 4000.00 1

[2, 0, 1, 1, 3]

2.0 false true 2 20

170 3190.00 1

[3, 0, 1, 1, 3]

3.0 false true 2 20

171 3970.00 1

[0, 1, 1, 1, 3]

0.0 true true 2 20

172 1190.00 1

[1, 1, 1, 1, 3]

1.0 true true 2 20

173 6480.00 1

[2, 1, 1, 1, 3]

2.0 true true 2 20

174 1510.00 2

[3, 1, 1, 1, 3]

3.0 true true 2 20

175 2530.00 2

[0, 0, 0, 2, 3]

0.0 false false 3 20

176 350.00 1

[1, 0, 0, 2, 3]

1.0 false false 3 20

177 460.00 1

[2, 0, 0, 2, 3]

2.0 false false 3 20

178 2560.00 1

[3, 0, 0, 2, 3]

3.0 false false 3 20

179 1270.00 1

[0, 1, 0, 2, 3]

0.0 true false 3 20

180 770.00 1

[1, 1, 0, 2, 3]

1.0 true false 3 20

181 1350.00 1

[2, 1, 0, 2, 3]

2.0 true false 3 20

182 1060.00 1

[3, 1, 0, 2, 3]

3.0 true false 3 20

183 740.00 1

[0, 0, 1, 2, 3]

0.0 false true 3 20

184 -460.00 1

[1, 0, 1, 2, 3]

1.0 false true 3 20

185 3860.00 1

[2, 0, 1, 2, 3]

2.0 false true 3 20

186 3340.00 1

[3, 0, 1, 2, 3]

3.0 false true 3 20

187 7050.00 1

[0, 1, 1, 2, 3]

0.0 true true 3 20

188 790.00 1

[1, 1, 1, 2, 3]

1.0 true true 3 20

189 1240.00 1

[2, 1, 1, 2, 3]

2.0 true true 3 20

190 2200.00 1

[3, 1, 1, 2, 3]

3.0 true true 3 20

191 3295.00 2

[0, 0, 0, 0, 4]

0.0 false false 1 50

192 980.00 1

[1, 0, 0, 0, 4]

1.0 false false 1 50

193 110.00 1

[2, 0, 0, 0, 4]

2.0 false false 1 50

194 640.00 1

[3, 0, 0, 0, 4]

3.0 false false 1 50

195 7560.00 1

[0, 1, 0, 0, 4]

0.0 true false 1 50

196 2850.00 1

[1, 1, 0, 0, 4]

1.0 true false 1 50

197 2650.00 1

[2, 1, 0, 0, 4]

2.0 true false 1 50

198 820.00 1

[3, 1, 0, 0, 4]

3.0 true false 1 50

199 1120.00 1

[0, 0, 1, 0, 4]

0.0 false true 1 50

200 3740.00 1

[1, 0, 1, 0, 4]

1.0 false true 1 50

201 5010.00 2

[2, 0, 1, 0, 4]

2.0 false true 1 50

202 9120.00 2

[3, 0, 1, 0, 4]

3.0 false true 1 50

203 7385.00 2

[0, 1, 1, 0, 4]

0.0 true true 1 50

204 8340.00 2

[1, 1, 1, 0, 4]

1.0 true true 1 50

205 8993.33 3

[2, 1, 1, 0, 4]

2.0 true true 1 50

206 7316.67 6

[3, 1, 1, 0, 4]

3.0 true true 1 50

207 7473.75 8

[0, 0, 0, 1, 4]

0.0 false false 2 50

208 570.00 1

[1, 0, 0, 1, 4]

1.0 false false 2 50

209 700.00 1

[2, 0, 0, 1, 4]

2.0 false false 2 50

210 2410.00 1

[3, 0, 0, 1, 4]

3.0 false false 2 50

211 1380.00 1

[0, 1, 0, 1, 4]

0.0 true false 2 50

212 1690.00 1

[1, 1, 0, 1, 4]

1.0 true false 2 50

213 1610.00 1

[2, 1, 0, 1, 4]

2.0 true false 2 50

214 190.00 1

[3, 1, 0, 1, 4]

3.0 true false 2 50

215 500.00 1

[0, 0, 1, 1, 4]

0.0 false true 2 50

216 -140.00 1

[1, 0, 1, 1, 4]

1.0 false true 2 50

217 5670.00 2

[2, 0, 1, 1, 4]

2.0 false true 2 50

218 1190.00 1

[3, 0, 1, 1, 4]

3.0 false true 2 50

219 6375.00 2

[0, 1, 1, 1, 4]

0.0 true true 2 50

220 7420.00 1

[1, 1, 1, 1, 4]

1.0 true true 2 50

221 3990.00 2

[2, 1, 1, 1, 4]

2.0 true true 2 50

222 4760.00 2

[3, 1, 1, 1, 4]

3.0 true true 2 50

223 7026.67 3

[0, 0, 0, 2, 4]

0.0 false false 3 50

224 320.00 1

[1, 0, 0, 2, 4]

1.0 false false 3 50

225 1480.00 1

[2, 0, 0, 2, 4]

2.0 false false 3 50

226 1460.00 1

[3, 0, 0, 2, 4]

3.0 false false 3 50

227 740.00 1

[0, 1, 0, 2, 4]

0.0 true false 3 50

228 900.00 1

[1, 1, 0, 2, 4]

1.0 true false 3 50

229 660.00 1

[2, 1, 0, 2, 4]

2.0 true false 3 50

230 2500.00 1

[3, 1, 0, 2, 4]

3.0 true false 3 50

231 210.00 1

[0, 0, 1, 2, 4]

0.0 false true 3 50

232 190.00 1

[1, 0, 1, 2, 4]

1.0 false true 3 50

233 4190.00 1

[2, 0, 1, 2, 4]

2.0 false true 3 50

234 5950.00 2

[3, 0, 1, 2, 4]

3.0 false true 3 50

235 7350.00 2

[0, 1, 1, 2, 4]

0.0 true true 3 50

236 4400.00 1

[1, 1, 1, 2, 4]

1.0 true true 3 50

237 7905.00 2

[2, 1, 1, 2, 4]

2.0 true true 3 50

238 9193.33 3

[3, 1, 1, 2, 4]

3.0 true true 3 50

239 7290.00 3

[0, 0, 0, 0, 5]

0.0 false false 1 100

240 1810.00 1

[1, 0, 0, 0, 5]

1.0 false false 1 100

241 480.00 1

[2, 0, 0, 0, 5]

2.0 false false 1 100

242 3620.00 1

[3, 0, 0, 0, 5]

3.0 false false 1 100

243 1570.00 1

[0, 1, 0, 0, 5]

0.0 true false 1 100

244 1590.00 1

[1, 1, 0, 0, 5]

1.0 true false 1 100

245 1120.00 1

[2, 1, 0, 0, 5]

2.0 true false 1 100

246 2610.00 2

[3, 1, 0, 0, 5]

3.0 true false 1 100

247 1005.00 2

[0, 0, 1, 0, 5]

0.0 false true 1 100

248 -220.00 1

[1, 0, 1, 0, 5]

1.0 false true 1 100

249 8826.67 3

[2, 0, 1, 0, 5]

2.0 false true 1 100

250 9417.50 4

[3, 0, 1, 0, 5]

3.0 false true 1 100

251 8340.00 4

[0, 1, 1, 0, 5]

0.0 true true 1 100

252 9670.00 3

[1, 1, 1, 0, 5]

1.0 true true 1 100

253 7330.00 8

[2, 1, 1, 0, 5]

2.0 true true 1 100

254 8782.77 177

[3, 1, 1, 0, 5]

3.0 true true 1 100

255 8817.20 218

[0, 0, 0, 1, 5]

0.0 false false 2 100

256 1010.00 1

[1, 0, 0, 1, 5]

1.0 false false 2 100

257 2300.00 1

[2, 0, 0, 1, 5]

2.0 false false 2 100

258 1740.00 1

[3, 0, 0, 1, 5]

3.0 false false 2 100

259 650.00 1

[0, 1, 0, 1, 5]

0.0 true false 2 100

260 1730.00 1

[1, 1, 0, 1, 5]

1.0 true false 2 100

261 1710.00 1

[2, 1, 0, 1, 5]

2.0 true false 2 100

262 3190.00 1

[3, 1, 0, 1, 5]

3.0 true false 2 100

263 620.00 1

[0, 0, 1, 1, 5]

0.0 false true 2 100

264 -100.00 1

[1, 0, 1, 1, 5]

1.0 false true 2 100

265 8875.00 2

[2, 0, 1, 1, 5]

2.0 false true 2 100

266 9045.00 2

[3, 0, 1, 1, 5]

3.0 false true 2 100

267 7960.00 3

[0, 1, 1, 1, 5]

0.0 true true 2 100

268 8720.00 2

[1, 1, 1, 1, 5]

1.0 true true 2 100

269 8862.50 4

[2, 1, 1, 1, 5]

2.0 true true 2 100

270 9344.38 16

[3, 1, 1, 1, 5]

3.0 true true 2 100

271 9198.79 33

[0, 0, 0, 2, 5]

0.0 false false 3 100

272 1390.00 1

[1, 0, 0, 2, 5]

1.0 false false 3 100

273 1350.00 1

[2, 0, 0, 2, 5]

2.0 false false 3 100

274 340.00 1

[3, 0, 0, 2, 5]

3.0 false false 3 100

275 1730.00 1

[0, 1, 0, 2, 5]

0.0 true false 3 100

276 780.00 1

[1, 1, 0, 2, 5]

1.0 true false 3 100

277 1280.00 1

[2, 1, 0, 2, 5]

2.0 true false 3 100

278 950.00 1

[3, 1, 0, 2, 5]

3.0 true false 3 100

279 220.00 1

[0, 0, 1, 2, 5]

0.0 false true 3 100

280 270.00 1

[1, 0, 1, 2, 5]

1.0 false true 3 100

281 7435.00 2

[2, 0, 1, 2, 5]

2.0 false true 3 100

282 8600.00 2

[3, 0, 1, 2, 5]

3.0 false true 3 100

283 8746.67 3

[0, 1, 1, 2, 5]

0.0 true true 3 100

284 6265.00 2

[1, 1, 1, 2, 5]

1.0 true true 3 100

285 9280.00 4

[2, 1, 1, 2, 5]

2.0 true true 3 100

286 9201.25 8

[3, 1, 1, 2, 5]

3.0 true true 3 100

287 9196.15 13

[0, 0, 0, 0, 6]

0.0 false false 1 150

288 960.00 1

[1, 0, 0, 0, 6]

1.0 false false 1 150

289 1090.00 1

[2, 0, 0, 0, 6]

2.0 false false 1 150

290 630.00 1

[3, 0, 0, 0, 6]

3.0 false false 1 150

291 730.00 1

[0, 1, 0, 0, 6]

0.0 true false 1 150

292 510.00 1

[1, 1, 0, 0, 6]

1.0 true false 1 150

293 260.00 1

[2, 1, 0, 0, 6]

2.0 true false 1 150

294 1460.00 1

[3, 1, 0, 0, 6]

3.0 true false 1 150

295 750.00 1

[0, 0, 1, 0, 6]

0.0 false true 1 150

296 2390.00 1

[1, 0, 1, 0, 6]

1.0 false true 1 150

297 7865.00 2

[2, 0, 1, 0, 6]

2.0 false true 1 150

298 6730.00 2

[3, 0, 1, 0, 6]

3.0 false true 1 150

299 8760.00 3

[0, 1, 1, 0, 6]

0.0 true true 1 150

300 8456.67 3

[1, 1, 1, 0, 6]

1.0 true true 1 150

301 8064.00 5

[2, 1, 1, 0, 6]

2.0 true true 1 150

302 8348.11 37

[3, 1, 1, 0, 6]

3.0 true true 1 150

303 8099.34 61

[0, 0, 0, 1, 6]

0.0 false false 2 150

304 250.00 1

[1, 0, 0, 1, 6]

1.0 false false 2 150

305 2060.00 1

[2, 0, 0, 1, 6]

2.0 false false 2 150

306 1440.00 1

[3, 0, 0, 1, 6]

3.0 false false 2 150

307 1150.00 1

[0, 1, 0, 1, 6]

0.0 true false 2 150

308 470.00 1

[1, 1, 0, 1, 6]

1.0 true false 2 150

309 1190.00 1

[2, 1, 0, 1, 6]

2.0 true false 2 150

310 520.00 1

[3, 1, 0, 1, 6]

3.0 true false 2 150

311 1370.00 1

[0, 0, 1, 1, 6]

0.0 false true 2 150

312 -50.00 1

[1, 0, 1, 1, 6]

1.0 false true 2 150

313 7920.00 2

[2, 0, 1, 1, 6]

2.0 false true 2 150

314 8595.00 2

[3, 0, 1, 1, 6]

3.0 false true 2 150

315 6990.00 2

[0, 1, 1, 1, 6]

0.0 true true 2 150

316 8920.00 2

[1, 1, 1, 1, 6]

1.0 true true 2 150

317 8296.67 3

[2, 1, 1, 1, 6]

2.0 true true 2 150

318 8022.00 5

[3, 1, 1, 1, 6]

3.0 true true 2 150

319 8261.43 7

[0, 0, 0, 2, 6]

0.0 false false 3 150

320 1090.00 1

[1, 0, 0, 2, 6]

1.0 false false 3 150

321 1200.00 1

[2, 0, 0, 2, 6]

2.0 false false 3 150

322 1710.00 1

[3, 0, 0, 2, 6]

3.0 false false 3 150

323 1290.00 1

[0, 1, 0, 2, 6]

0.0 true false 3 150

324 -50.00 1

[1, 1, 0, 2, 6]

1.0 true false 3 150

325 1650.00 1

[2, 1, 0, 2, 6]

2.0 true false 3 150

326 510.00 1

[3, 1, 0, 2, 6]

3.0 true false 3 150

327 340.00 1

[0, 0, 1, 2, 6]

0.0 false true 3 150

328 1170.00 1

[1, 0, 1, 2, 6]

1.0 false true 3 150

329 8660.00 2

[2, 0, 1, 2, 6]

2.0 false true 3 150

330 1960.00 1

[3, 0, 1, 2, 6]

3.0 false true 3 150

331 8810.00 2

[0, 1, 1, 2, 6]

0.0 true true 3 150

332 2180.00 1

[1, 1, 1, 2, 6]

1.0 true true 3 150

333 8546.67 3

[2, 1, 1, 2, 6]

2.0 true true 3 150

334 8732.50 4

[3, 1, 1, 2, 6]

3.0 true true 3 150

335 8864.00 5

GridModel has 16 tuples.

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 1270.0

max = 10030.0

ave = 8798.3

sd = 1211.1661089356664

se = 121.11661089356664

sum = 879830.0

sumsq = 7.8862337E9

n = 100

Checks complete: 276658 ms elapsed

Solution: [3, 1, 1, 0, 5]

Search space has 5 dimensions

Point Mutation Rate

[0]

0.0

0 2399.26 94

[1]

1.0

1 4389.24 119

[2]

2.0

2 7569.36 513

[3]

3.0

3 7831.39 618

Flip at least one bit?

[0]

false

0 3298.51 202

[1]

true

1 7709.66 1142

Use shift Buffer?

[0]

false

0 1457.44 172

[1]

true

1 7866.94 1172

nResamples

[0]

1

0 7868.24 964

[1]

2

1 5477.93 222

[2]

3

2 4238.29 158

sequence length

[0]

5

0 557.55 49

[1]

10

1 1767.12 52

[2]

15

2 1930.20 51

[3]

20

3 2645.36 56

[4]

50

4 5021.69 83

[5]

100

5 8536.58 815

[6]

150

6 7272.39 238

Point Mutation Rate

Flip at least one bit?

[0, 0]

0.0 false

0 879.05 42

[1, 0]

1.0 false

1 3638.43 51

[2, 0]

2.0 false

2 3761.73 52

[3, 0]

3.0 false

3 4354.56 57

[0, 1]

0.0 true

4 3627.12 52

[1, 1]

1.0 true

5 4952.35 68

[2, 1]

2.0 true

6 7998.85 461

[3, 1]

3.0 true

7 8184.65 561

Point Mutation Rate

Use shift Buffer?

[0, 0]

0.0 false

0 1234.65 43

[1, 0]

1.0 false

1 1457.62 42

[2, 0]

2.0 false

2 1690.45 44

[3, 0]

3.0 false

3 1441.63 43

[0, 1]

0.0 true

4 3381.18 51

[1, 1]

1.0 true

5 5988.31 77

[2, 1]

2.0 true

6 8120.90 469

[3, 1]

3.0 true

7 8309.23 575

Point Mutation Rate

nResamples

[0, 0]

0.0 1

0 3484.55 33

[1, 0]

1.0 1

1 4826.96 46

[2, 0]

2.0 1

2 8109.56 409

[3, 0]

3.0 1

3 8258.70 476

[0, 1]

0.0 2

4 2152.81 32

[1, 1]

1.0 2

5 4175.41 37

[2, 1]

2.0 2

6 5911.13 62

[3, 1]

3.0 2

7 6881.65 91

[0, 2]

0.0 3

8 1436.21 29

[1, 2]

1.0 3

9 4049.72 36

[2, 2]

2.0 3

10 4756.67 42

[3, 2]

3.0 3

11 5537.84 51

Point Mutation Rate

sequence length

[0, 0]

0.0 5

0 600.83 12

[1, 0]

1.0 5

1 421.67 12

[2, 0]

2.0 5

2 615.38 13

[3, 0]

3.0 5

3 587.50 12

[0, 1]

0.0 10

4 1240.00 12

[1, 1]

1.0 10

5 2048.33 12

[2, 1]

2.0 10

6 1746.43 14

[3, 1]

3.0 10

7 1998.57 14

[0, 2]

0.0 15

8 2061.67 12

[1, 2]

1.0 15

9 1979.17 12

[2, 2]

2.0 15

10 1847.14 14

[3, 2]

3.0 15

11 1853.08 13

[0, 3]

0.0 20

12 1250.00 12

[1, 3]

1.0 20

13 3050.77 13

[2, 3]

2.0 20

14 2812.00 15

[3, 3]

3.0 20

15 3206.25 16

[0, 4]

0.0 50

16 2955.33 15

[1, 4]

1.0 50

17 4640.56 18

[2, 4]

2.0 50

18 5368.70 23

[3, 4]

3.0 50

19 6128.15 27

[0, 5]

0.0 100

20 4202.50 16

[1, 5]

1.0 100

21 6846.55 29

[2, 5]

2.0 100

22 8643.66 347

[3, 5]

3.0 100

23 8728.53 423

[0, 6]

0.0 150

24 3475.33 15

[1, 6]

1.0 150

25 6399.57 23

[2, 6]

2.0 150

26 7583.45 87

[3, 6]

3.0 150

27 7714.60 113

Flip at least one bit?

Use shift Buffer?

[0, 0]

false false

0 1378.10 84

[1, 0]

true false

1 1533.18 88

[0, 1]

false true

2 4665.59 118

[1, 1]

true true

3 8225.34 1054

Flip at least one bit?

nResamples

[0, 0]

false 1

0 3891.37 73

[1, 0]

true 1

1 8194.06 891

[0, 1]

false 2

2 2975.69 65

[1, 1]

true 2

3 6513.89 157

[0, 2]

false 3

4 2950.16 64

[1, 2]

true 3

5 5115.32 94

Flip at least one bit?

sequence length

[0, 0]

false 5

0 465.83 24

[1, 0]

true 5

1 645.60 25

[0, 1]

false 10

2 1433.75 24

[1, 1]

true 10

3 2052.86 28

[0, 2]

false 15

4 1848.75 24

[1, 2]

true 15

5 2002.59 27

[0, 3]

false 20

6 2505.00 26

[1, 3]

true 20

7 2767.00 30

[0, 4]

false 50

8 3910.97 31

[1, 4]

true 50

9 5683.85 52

[0, 5]

false 100

10 5837.00 40

[1, 5]

true 100

11 8675.91 775

[0, 6]

false 150

12 4742.12 33

[1, 6]

true 150

13 7679.71 205

Use shift Buffer?

nResamples

[0, 0]

false 1

0 1691.36 59

[1, 0]

true 1

1 8270.93 905

[0, 1]

false 2

2 1460.00 57

[1, 1]

true 2

3 6865.94 165

[0, 2]

false 3

4 1208.39 56

[1, 2]

true 3

5 5901.76 102

Use shift Buffer?

sequence length

[0, 0]

false 5

0 671.67 24

[1, 0]

true 5

1 448.00 25

[0, 1]

false 10

2 1991.25 24

[1, 1]

true 10

3 1575.00 28

[0, 2]

false 15

4 1749.60 25

[1, 2]

true 15

5 2103.85 26

[0, 3]

false 20

6 1954.17 24

[1, 3]

true 20

7 3163.75 32

[0, 4]

false 50

8 1405.60 25

[1, 4]

true 50

9 6580.34 58

[0, 5]

false 100

10 1477.31 26

[1, 5]

true 100

11 8769.20 789

[0, 6]

false 150

12 940.83 24

[1, 6]

true 150

13 7982.48 214

nResamples

sequence length

[0, 0]

1 5

0 452.94 17

[1, 0]

2 5

1 553.13 16

[2, 0]

3 5

2 673.13 16

[0, 1]

1 10

3 1851.11 18

[1, 1]

2 10

4 1856.11 18

[2, 1]

3 10

5 1572.50 16

[0, 2]

1 15

6 2294.21 19

[1, 2]

2 15

7 1595.00 16

[2, 2]

3 15

8 1833.13 16

[0, 3]

1 20

9 3380.48 21

[1, 3]

2 20

10 2443.33 18

[2, 3]

3 20

11 1951.18 17

[0, 4]

1 50

12 6193.61 36

[1, 4]

2 50

13 3538.33 24

[2, 4]

3 50

14 4735.22 23

[0, 5]

1 100

15 8640.81 676

[1, 5]

2 100

16 8403.02 96

[2, 5]

3 100

17 7196.05 43

[0, 6]

1 150

18 7713.11 177

[1, 6]

2 150

19 6256.76 34

[2, 6]

3 150

20 5662.22 27

Point Mutation Rate

Flip at least one bit?

Use shift Buffer?

nResamples

sequence length

[0, 0, 0, 0, 0]

0.0 false false 1 5

0 920.00 1

[1, 0, 0, 0, 0]

1.0 false false 1 5

1 240.00 1

[2, 0, 0, 0, 0]

2.0 false false 1 5

2 730.00 1

[3, 0, 0, 0, 0]

3.0 false false 1 5

3 340.00 1

[0, 1, 0, 0, 0]

0.0 true false 1 5

4 -20.00 1

[1, 1, 0, 0, 0]

1.0 true false 1 5

5 500.00 1

[2, 1, 0, 0, 0]

2.0 true false 1 5

6 1080.00 1

[3, 1, 0, 0, 0]

3.0 true false 1 5

7 330.00 1

[0, 0, 1, 0, 0]

0.0 false true 1 5

8 1110.00 1

[1, 0, 1, 0, 0]

1.0 false true 1 5

9 -210.00 1

[2, 0, 1, 0, 0]

2.0 false true 1 5

10 -180.00 1

[3, 0, 1, 0, 0]

3.0 false true 1 5

11 50.00 1

[0, 1, 1, 0, 0]

0.0 true true 1 5

12 70.00 1

[1, 1, 1, 0, 0]

1.0 true true 1 5

13 480.00 1

[2, 1, 1, 0, 0]

2.0 true true 1 5

14 745.00 2

[3, 1, 1, 0, 0]

3.0 true true 1 5

15 770.00 1

[0, 0, 0, 1, 0]

0.0 false false 2 5

16 -30.00 1

[1, 0, 0, 1, 0]

1.0 false false 2 5

17 1110.00 1

[2, 0, 0, 1, 0]

2.0 false false 2 5

18 200.00 1

[3, 0, 0, 1, 0]

3.0 false false 2 5

19 -140.00 1

[0, 1, 0, 1, 0]

0.0 true false 2 5

20 710.00 1

[1, 1, 0, 1, 0]

1.0 true false 2 5

21 410.00 1

[2, 1, 0, 1, 0]

2.0 true false 2 5

22 640.00 1

[3, 1, 0, 1, 0]

3.0 true false 2 5

23 200.00 1

[0, 0, 1, 1, 0]

0.0 false true 2 5

24 -400.00 1

[1, 0, 1, 1, 0]

1.0 false true 2 5

25 200.00 1

[2, 0, 1, 1, 0]

2.0 false true 2 5

26 1040.00 1

[3, 0, 1, 1, 0]

3.0 false true 2 5

27 2550.00 1

[0, 1, 1, 1, 0]

0.0 true true 2 5

28 690.00 1

[1, 1, 1, 1, 0]

1.0 true true 2 5

29 160.00 1

[2, 1, 1, 1, 0]

2.0 true true 2 5

30 570.00 1

[3, 1, 1, 1, 0]

3.0 true true 2 5

31 940.00 1

[0, 0, 0, 2, 0]

0.0 false false 3 5

32 370.00 1

[1, 0, 0, 2, 0]

1.0 false false 3 5

33 570.00 1

[2, 0, 0, 2, 0]

2.0 false false 3 5

34 850.00 1

[3, 0, 0, 2, 0]

3.0 false false 3 5

35 800.00 1

[0, 1, 0, 2, 0]

0.0 true false 3 5

36 3580.00 1

[1, 1, 0, 2, 0]

1.0 true false 3 5

37 1290.00 1

[2, 1, 0, 2, 0]

2.0 true false 3 5

38 1140.00 1

[3, 1, 0, 2, 0]

3.0 true false 3 5

39 300.00 1

[0, 0, 1, 2, 0]

0.0 false true 3 5

40 240.00 1

[1, 0, 1, 2, 0]

1.0 false true 3 5

41 150.00 1

[2, 0, 1, 2, 0]

2.0 false true 3 5

42 240.00 1

[3, 0, 1, 2, 0]

3.0 false true 3 5

43 430.00 1

[0, 1, 1, 2, 0]

0.0 true true 3 5

44 -30.00 1

[1, 1, 1, 2, 0]

1.0 true true 3 5

45 160.00 1

[2, 1, 1, 2, 0]

2.0 true true 3 5

46 200.00 1

[3, 1, 1, 2, 0]

3.0 true true 3 5

47 480.00 1

[0, 0, 0, 0, 1]

0.0 false false 1 10

48 2060.00 1

[1, 0, 0, 0, 1]

1.0 false false 1 10

49 2830.00 1

[2, 0, 0, 0, 1]

2.0 false false 1 10

50 1260.00 1

[3, 0, 0, 0, 1]

3.0 false false 1 10

51 1310.00 1

[0, 1, 0, 0, 1]

0.0 true false 1 10

52 890.00 1

[1, 1, 0, 0, 1]

1.0 true false 1 10

53 520.00 1

[2, 1, 0, 0, 1]

2.0 true false 1 10

54 1850.00 1

[3, 1, 0, 0, 1]

3.0 true false 1 10

55 2410.00 1

[0, 0, 1, 0, 1]

0.0 false true 1 10

56 4020.00 1

[1, 0, 1, 0, 1]

1.0 false true 1 10

57 3570.00 1

[2, 0, 1, 0, 1]

2.0 false true 1 10

58 1100.00 1

[3, 0, 1, 0, 1]

3.0 false true 1 10

59 820.00 1

[0, 1, 1, 0, 1]

0.0 true true 1 10

60 2120.00 1

[1, 1, 1, 0, 1]

1.0 true true 1 10

61 2590.00 1

[2, 1, 1, 0, 1]

2.0 true true 1 10

62 505.00 2

[3, 1, 1, 0, 1]

3.0 true true 1 10

63 2480.00 2

[0, 0, 0, 1, 1]

0.0 false false 2 10

64 1660.00 1

[1, 0, 0, 1, 1]

1.0 false false 2 10

65 1950.00 1

[2, 0, 0, 1, 1]

2.0 false false 2 10

66 1900.00 1

[3, 0, 0, 1, 1]

3.0 false false 2 10

67 1640.00 1

[0, 1, 0, 1, 1]

0.0 true false 2 10

68 2000.00 1

[1, 1, 0, 1, 1]

1.0 true false 2 10

69 1990.00 1

[2, 1, 0, 1, 1]

2.0 true false 2 10

70 3570.00 1

[3, 1, 0, 1, 1]

3.0 true false 2 10

71 5710.00 1

[0, 0, 1, 1, 1]

0.0 false true 2 10

72 -280.00 1

[1, 0, 1, 1, 1]

1.0 false true 2 10

73 1480.00 1

[2, 0, 1, 1, 1]

2.0 false true 2 10

74 730.00 1

[3, 0, 1, 1, 1]

3.0 false true 2 10

75 520.00 1

[0, 1, 1, 1, 1]

0.0 true true 2 10

76 1140.00 1

[1, 1, 1, 1, 1]

1.0 true true 2 10

77 900.00 1

[2, 1, 1, 1, 1]

2.0 true true 2 10

78 2890.00 2

[3, 1, 1, 1, 1]

3.0 true true 2 10

79 1360.00 2

[0, 0, 0, 2, 1]

0.0 false false 3 10

80 100.00 1

[1, 0, 0, 2, 1]

1.0 false false 3 10

81 1120.00 1

[2, 0, 0, 2, 1]

2.0 false false 3 10

82 670.00 1

[3, 0, 0, 2, 1]

3.0 false false 3 10

83 390.00 1

[0, 1, 0, 2, 1]

0.0 true false 3 10

84 1530.00 1

[1, 1, 0, 2, 1]

1.0 true false 3 10

85 3580.00 1

[2, 1, 0, 2, 1]

2.0 true false 3 10

86 3570.00 1

[3, 1, 0, 2, 1]

3.0 true false 3 10

87 3280.00 1

[0, 0, 1, 2, 1]

0.0 false true 3 10

88 -450.00 1

[1, 0, 1, 2, 1]

1.0 false true 3 10

89 1460.00 1

[2, 0, 1, 2, 1]

2.0 false true 3 10

90 2670.00 1

[3, 0, 1, 2, 1]

3.0 false true 3 10

91 1880.00 1

[0, 1, 1, 2, 1]

0.0 true true 3 10

92 90.00 1

[1, 1, 1, 2, 1]

1.0 true true 3 10

93 2590.00 1

[2, 1, 1, 2, 1]

2.0 true true 3 10

94 340.00 1

[3, 1, 1, 2, 1]

3.0 true true 3 10

95 2340.00 1

[0, 0, 0, 0, 2]

0.0 false false 1 15

96 1120.00 1

[1, 0, 0, 0, 2]

1.0 false false 1 15

97 3770.00 1

[2, 0, 0, 0, 2]

2.0 false false 1 15

98 1300.00 1

[3, 0, 0, 0, 2]

3.0 false false 1 15

99 2630.00 1

[0, 1, 0, 0, 2]

0.0 true false 1 15

100 2810.00 1

[1, 1, 0, 0, 2]

1.0 true false 1 15

101 1130.00 1

[2, 1, 0, 0, 2]

2.0 true false 1 15

102 2740.00 2

[3, 1, 0, 0, 2]

3.0 true false 1 15

103 1390.00 1

[0, 0, 1, 0, 2]

0.0 false true 1 15

104 460.00 1

[1, 0, 1, 0, 2]

1.0 false true 1 15

105 2650.00 1

[2, 0, 1, 0, 2]

2.0 false true 1 15

106 2170.00 1

[3, 0, 1, 0, 2]

3.0 false true 1 15

107 860.00 1

[0, 1, 1, 0, 2]

0.0 true true 1 15

108 6580.00 1

[1, 1, 1, 0, 2]

1.0 true true 1 15

109 1900.00 1

[2, 1, 1, 0, 2]

2.0 true true 1 15

110 2620.00 2

[3, 1, 1, 0, 2]

3.0 true true 1 15

111 2050.00 2

[0, 0, 0, 1, 2]

0.0 false false 2 15

112 390.00 1

[1, 0, 0, 1, 2]

1.0 false false 2 15

113 1880.00 1

[2, 0, 0, 1, 2]

2.0 false false 2 15

114 1010.00 1

[3, 0, 0, 1, 2]

3.0 false false 2 15

115 1510.00 1

[0, 1, 0, 1, 2]

0.0 true false 2 15

116 2400.00 1

[1, 1, 0, 1, 2]

1.0 true false 2 15

117 1160.00 1

[2, 1, 0, 1, 2]

2.0 true false 2 15

118 1890.00 1

[3, 1, 0, 1, 2]

3.0 true false 2 15

119 1950.00 1

[0, 0, 1, 1, 2]

0.0 false true 2 15

120 -210.00 1

[1, 0, 1, 1, 2]

1.0 false true 2 15

121 3900.00 1

[2, 0, 1, 1, 2]

2.0 false true 2 15

122 990.00 1

[3, 0, 1, 1, 2]

3.0 false true 2 15

123 2780.00 1

[0, 1, 1, 1, 2]

0.0 true true 2 15

124 1590.00 1

[1, 1, 1, 1, 2]

1.0 true true 2 15

125 1970.00 1

[2, 1, 1, 1, 2]

2.0 true true 2 15

126 1490.00 1

[3, 1, 1, 1, 2]

3.0 true true 2 15

127 820.00 1

[0, 0, 0, 2, 2]

0.0 false false 3 15

128 3470.00 1

[1, 0, 0, 2, 2]

1.0 false false 3 15

129 700.00 1

[2, 0, 0, 2, 2]

2.0 false false 3 15

130 230.00 1

[3, 0, 0, 2, 2]

3.0 false false 3 15

131 2000.00 1

[0, 1, 0, 2, 2]

0.0 true false 3 15

132 1220.00 1

[1, 1, 0, 2, 2]

1.0 true false 3 15

133 2620.00 1

[2, 1, 0, 2, 2]

2.0 true false 3 15

134 960.00 1

[3, 1, 0, 2, 2]

3.0 true false 3 15

135 720.00 1

[0, 0, 1, 2, 2]

0.0 false true 3 15

136 3320.00 1

[1, 0, 1, 2, 2]

1.0 false true 3 15

137 270.00 1

[2, 0, 1, 2, 2]

2.0 false true 3 15

138 3740.00 1

[3, 0, 1, 2, 2]

3.0 false true 3 15

139 3430.00 1

[0, 1, 1, 2, 2]

0.0 true true 3 15

140 1590.00 1

[1, 1, 1, 2, 2]

1.0 true true 3 15

141 1800.00 1

[2, 1, 1, 2, 2]

2.0 true true 3 15

142 1360.00 1

[3, 1, 1, 2, 2]

3.0 true true 3 15

143 1900.00 1

[0, 0, 0, 0, 3]

0.0 false false 1 20

144 900.00 1

[1, 0, 0, 0, 3]

1.0 false false 1 20

145 3260.00 1

[2, 0, 0, 0, 3]

2.0 false false 1 20

146 5300.00 1

[3, 0, 0, 0, 3]

3.0 false false 1 20

147 1460.00 1

[0, 1, 0, 0, 3]

0.0 true false 1 20

148 1870.00 1

[1, 1, 0, 0, 3]

1.0 true false 1 20

149 1800.00 1

[2, 1, 0, 0, 3]

2.0 true false 1 20

150 3720.00 1

[3, 1, 0, 0, 3]

3.0 true false 1 20

151 4060.00 1

[0, 0, 1, 0, 3]

0.0 false true 1 20

152 610.00 1

[1, 0, 1, 0, 3]

1.0 false true 1 20

153 1130.00 1

[2, 0, 1, 0, 3]

2.0 false true 1 20

154 3320.00 2

[3, 0, 1, 0, 3]

3.0 false true 1 20

155 3870.00 2

[0, 1, 1, 0, 3]

0.0 true true 1 20

156 3800.00 1

[1, 1, 1, 0, 3]

1.0 true true 1 20

157 6000.00 2

[2, 1, 1, 0, 3]

2.0 true true 1 20

158 3545.00 2

[3, 1, 1, 0, 3]

3.0 true true 1 20

159 4805.00 2

[0, 0, 0, 1, 3]

0.0 false false 2 20

160 920.00 1

[1, 0, 0, 1, 3]

1.0 false false 2 20

161 900.00 1

[2, 0, 0, 1, 3]

2.0 false false 2 20

162 3040.00 1

[3, 0, 0, 1, 3]

3.0 false false 2 20

163 2540.00 1

[0, 1, 0, 1, 3]

0.0 true false 2 20

164 3160.00 1

[1, 1, 0, 1, 3]

1.0 true false 2 20

165 3180.00 1

[2, 1, 0, 1, 3]

2.0 true false 2 20

166 1020.00 1

[3, 1, 0, 1, 3]

3.0 true false 2 20

167 1210.00 1

[0, 0, 1, 1, 3]

0.0 false true 2 20

168 1100.00 1

[1, 0, 1, 1, 3]

1.0 false true 2 20

169 4000.00 1

[2, 0, 1, 1, 3]

2.0 false true 2 20

170 3190.00 1

[3, 0, 1, 1, 3]

3.0 false true 2 20

171 3970.00 1

[0, 1, 1, 1, 3]

0.0 true true 2 20

172 1190.00 1

[1, 1, 1, 1, 3]

1.0 true true 2 20

173 6480.00 1

[2, 1, 1, 1, 3]

2.0 true true 2 20

174 1510.00 2

[3, 1, 1, 1, 3]

3.0 true true 2 20

175 2530.00 2

[0, 0, 0, 2, 3]

0.0 false false 3 20

176 350.00 1

[1, 0, 0, 2, 3]

1.0 false false 3 20

177 460.00 1

[2, 0, 0, 2, 3]

2.0 false false 3 20

178 2560.00 1

[3, 0, 0, 2, 3]

3.0 false false 3 20

179 1270.00 1

[0, 1, 0, 2, 3]

0.0 true false 3 20

180 770.00 1

[1, 1, 0, 2, 3]

1.0 true false 3 20

181 1350.00 1

[2, 1, 0, 2, 3]

2.0 true false 3 20

182 1060.00 1

[3, 1, 0, 2, 3]

3.0 true false 3 20

183 740.00 1

[0, 0, 1, 2, 3]

0.0 false true 3 20

184 -460.00 1

[1, 0, 1, 2, 3]

1.0 false true 3 20

185 3860.00 1

[2, 0, 1, 2, 3]

2.0 false true 3 20

186 3340.00 1

[3, 0, 1, 2, 3]

3.0 false true 3 20

187 7050.00 1

[0, 1, 1, 2, 3]

0.0 true true 3 20

188 790.00 1

[1, 1, 1, 2, 3]

1.0 true true 3 20

189 1240.00 1

[2, 1, 1, 2, 3]

2.0 true true 3 20

190 2200.00 1

[3, 1, 1, 2, 3]

3.0 true true 3 20

191 3295.00 2

[0, 0, 0, 0, 4]

0.0 false false 1 50

192 980.00 1

[1, 0, 0, 0, 4]

1.0 false false 1 50

193 110.00 1

[2, 0, 0, 0, 4]

2.0 false false 1 50

194 640.00 1

[3, 0, 0, 0, 4]

3.0 false false 1 50

195 7560.00 1

[0, 1, 0, 0, 4]

0.0 true false 1 50

196 2850.00 1

[1, 1, 0, 0, 4]

1.0 true false 1 50

197 2650.00 1

[2, 1, 0, 0, 4]

2.0 true false 1 50

198 820.00 1

[3, 1, 0, 0, 4]

3.0 true false 1 50

199 1120.00 1

[0, 0, 1, 0, 4]

0.0 false true 1 50

200 3740.00 1

[1, 0, 1, 0, 4]

1.0 false true 1 50

201 5010.00 2

[2, 0, 1, 0, 4]

2.0 false true 1 50

202 9120.00 2

[3, 0, 1, 0, 4]

3.0 false true 1 50

203 7385.00 2

[0, 1, 1, 0, 4]

0.0 true true 1 50

204 8340.00 2

[1, 1, 1, 0, 4]

1.0 true true 1 50

205 8993.33 3

[2, 1, 1, 0, 4]

2.0 true true 1 50

206 6718.57 7

[3, 1, 1, 0, 4]

3.0 true true 1 50

207 7642.22 9

[0, 0, 0, 1, 4]

0.0 false false 2 50

208 570.00 1

[1, 0, 0, 1, 4]

1.0 false false 2 50

209 700.00 1

[2, 0, 0, 1, 4]

2.0 false false 2 50

210 2410.00 1

[3, 0, 0, 1, 4]

3.0 false false 2 50

211 1380.00 1

[0, 1, 0, 1, 4]

0.0 true false 2 50

212 1390.00 2

[1, 1, 0, 1, 4]

1.0 true false 2 50

213 1610.00 1

[2, 1, 0, 1, 4]

2.0 true false 2 50

214 190.00 1

[3, 1, 0, 1, 4]

3.0 true false 2 50

215 500.00 1

[0, 0, 1, 1, 4]

0.0 false true 2 50

216 -140.00 1

[1, 0, 1, 1, 4]

1.0 false true 2 50

217 5670.00 2

[2, 0, 1, 1, 4]

2.0 false true 2 50

218 1190.00 1

[3, 0, 1, 1, 4]

3.0 false true 2 50

219 6375.00 2

[0, 1, 1, 1, 4]

0.0 true true 2 50

220 5530.00 2

[1, 1, 1, 1, 4]

1.0 true true 2 50

221 3990.00 2

[2, 1, 1, 1, 4]

2.0 true true 2 50

222 4760.00 2

[3, 1, 1, 1, 4]

3.0 true true 2 50

223 7026.67 3

[0, 0, 0, 2, 4]

0.0 false false 3 50

224 320.00 1

[1, 0, 0, 2, 4]

1.0 false false 3 50

225 1480.00 1

[2, 0, 0, 2, 4]

2.0 false false 3 50

226 1460.00 1

[3, 0, 0, 2, 4]

3.0 false false 3 50

227 740.00 1

[0, 1, 0, 2, 4]

0.0 true false 3 50

228 900.00 1

[1, 1, 0, 2, 4]

1.0 true false 3 50

229 660.00 1

[2, 1, 0, 2, 4]

2.0 true false 3 50

230 2500.00 1

[3, 1, 0, 2, 4]

3.0 true false 3 50

231 210.00 1

[0, 0, 1, 2, 4]

0.0 false true 3 50

232 190.00 1

[1, 0, 1, 2, 4]

1.0 false true 3 50

233 4190.00 1

[2, 0, 1, 2, 4]

2.0 false true 3 50

234 5950.00 2

[3, 0, 1, 2, 4]

3.0 false true 3 50

235 7350.00 2

[0, 1, 1, 2, 4]

0.0 true true 3 50

236 4400.00 1

[1, 1, 1, 2, 4]

1.0 true true 3 50

237 7905.00 2

[2, 1, 1, 2, 4]

2.0 true true 3 50

238 9193.33 3

[3, 1, 1, 2, 4]

3.0 true true 3 50

239 7290.00 3

[0, 0, 0, 0, 5]

0.0 false false 1 100

240 1810.00 1

[1, 0, 0, 0, 5]

1.0 false false 1 100

241 480.00 1

[2, 0, 0, 0, 5]

2.0 false false 1 100

242 3620.00 1

[3, 0, 0, 0, 5]

3.0 false false 1 100

243 1570.00 1

[0, 1, 0, 0, 5]

0.0 true false 1 100

244 1590.00 1

[1, 1, 0, 0, 5]

1.0 true false 1 100

245 1120.00 1

[2, 1, 0, 0, 5]

2.0 true false 1 100

246 2610.00 2

[3, 1, 0, 0, 5]

3.0 true false 1 100

247 1005.00 2

[0, 0, 1, 0, 5]

0.0 false true 1 100

248 -220.00 1

[1, 0, 1, 0, 5]

1.0 false true 1 100

249 8826.67 3

[2, 0, 1, 0, 5]

2.0 false true 1 100

250 9417.50 4

[3, 0, 1, 0, 5]

3.0 false true 1 100

251 8340.00 4

[0, 1, 1, 0, 5]

0.0 true true 1 100

252 9670.00 3

[1, 1, 1, 0, 5]

1.0 true true 1 100

253 7330.00 8

[2, 1, 1, 0, 5]

2.0 true true 1 100

254 8712.17 299

[3, 1, 1, 0, 5]

3.0 true true 1 100

255 8819.45 344

[0, 0, 0, 1, 5]

0.0 false false 2 100

256 1010.00 1

[1, 0, 0, 1, 5]

1.0 false false 2 100

257 2300.00 1

[2, 0, 0, 1, 5]

2.0 false false 2 100

258 1740.00 1

[3, 0, 0, 1, 5]

3.0 false false 2 100

259 650.00 1

[0, 1, 0, 1, 5]

0.0 true false 2 100

260 1730.00 1

[1, 1, 0, 1, 5]

1.0 true false 2 100

261 1710.00 1

[2, 1, 0, 1, 5]

2.0 true false 2 100

262 3190.00 1

[3, 1, 0, 1, 5]

3.0 true false 2 100

263 620.00 1

[0, 0, 1, 1, 5]

0.0 false true 2 100

264 -100.00 1

[1, 0, 1, 1, 5]

1.0 false true 2 100

265 8875.00 2

[2, 0, 1, 1, 5]

2.0 false true 2 100

266 9045.00 2

[3, 0, 1, 1, 5]

3.0 false true 2 100

267 7960.00 3

[0, 1, 1, 1, 5]

0.0 true true 2 100

268 8720.00 2

[1, 1, 1, 1, 5]

1.0 true true 2 100

269 8862.50 4

[2, 1, 1, 1, 5]

2.0 true true 2 100

270 9311.20 25

[3, 1, 1, 1, 5]

3.0 true true 2 100

271 9152.04 49

[0, 0, 0, 2, 5]

0.0 false false 3 100

272 1390.00 1

[1, 0, 0, 2, 5]

1.0 false false 3 100

273 1350.00 1

[2, 0, 0, 2, 5]

2.0 false false 3 100

274 340.00 1

[3, 0, 0, 2, 5]

3.0 false false 3 100

275 1730.00 1

[0, 1, 0, 2, 5]

0.0 true false 3 100

276 780.00 1

[1, 1, 0, 2, 5]

1.0 true false 3 100

277 1280.00 1

[2, 1, 0, 2, 5]

2.0 true false 3 100

278 950.00 1

[3, 1, 0, 2, 5]

3.0 true false 3 100

279 220.00 1

[0, 0, 1, 2, 5]

0.0 false true 3 100

280 270.00 1

[1, 0, 1, 2, 5]

1.0 false true 3 100

281 7435.00 2

[2, 0, 1, 2, 5]

2.0 false true 3 100

282 8600.00 2

[3, 0, 1, 2, 5]

3.0 false true 3 100

283 8746.67 3

[0, 1, 1, 2, 5]

0.0 true true 3 100

284 6265.00 2

[1, 1, 1, 2, 5]

1.0 true true 3 100

285 9280.00 4

[2, 1, 1, 2, 5]

2.0 true true 3 100

286 9201.25 8

[3, 1, 1, 2, 5]

3.0 true true 3 100

287 9196.15 13

[0, 0, 0, 0, 6]

0.0 false false 1 150

288 960.00 1

[1, 0, 0, 0, 6]

1.0 false false 1 150

289 1090.00 1

[2, 0, 0, 0, 6]

2.0 false false 1 150

290 630.00 1

[3, 0, 0, 0, 6]

3.0 false false 1 150

291 730.00 1

[0, 1, 0, 0, 6]

0.0 true false 1 150

292 510.00 1

[1, 1, 0, 0, 6]

1.0 true false 1 150

293 260.00 1

[2, 1, 0, 0, 6]

2.0 true false 1 150

294 1460.00 1

[3, 1, 0, 0, 6]

3.0 true false 1 150

295 750.00 1

[0, 0, 1, 0, 6]

0.0 false true 1 150

296 2390.00 1

[1, 0, 1, 0, 6]

1.0 false true 1 150

297 7865.00 2

[2, 0, 1, 0, 6]

2.0 false true 1 150

298 6730.00 2

[3, 0, 1, 0, 6]

3.0 false true 1 150

299 8760.00 3

[0, 1, 1, 0, 6]

0.0 true true 1 150

300 8456.67 3

[1, 1, 1, 0, 6]

1.0 true true 1 150

301 8064.00 5

[2, 1, 1, 0, 6]

2.0 true true 1 150

302 8148.48 66

[3, 1, 1, 0, 6]

3.0 true true 1 150

303 8017.01 87

[0, 0, 0, 1, 6]

0.0 false false 2 150

304 250.00 1

[1, 0, 0, 1, 6]

1.0 false false 2 150

305 2060.00 1

[2, 0, 0, 1, 6]

2.0 false false 2 150

306 1440.00 1

[3, 0, 0, 1, 6]

3.0 false false 2 150

307 1150.00 1

[0, 1, 0, 1, 6]

0.0 true false 2 150

308 470.00 1

[1, 1, 0, 1, 6]

1.0 true false 2 150

309 1190.00 1

[2, 1, 0, 1, 6]

2.0 true false 2 150

310 520.00 1

[3, 1, 0, 1, 6]

3.0 true false 2 150

311 1370.00 1

[0, 0, 1, 1, 6]

0.0 false true 2 150

312 -50.00 1

[1, 0, 1, 1, 6]

1.0 false true 2 150

313 7920.00 2

[2, 0, 1, 1, 6]

2.0 false true 2 150

314 8595.00 2

[3, 0, 1, 1, 6]

3.0 false true 2 150

315 6990.00 2

[0, 1, 1, 1, 6]

0.0 true true 2 150

316 8920.00 2

[1, 1, 1, 1, 6]

1.0 true true 2 150

317 8296.67 3

[2, 1, 1, 1, 6]

2.0 true true 2 150

318 8025.00 6

[3, 1, 1, 1, 6]

3.0 true true 2 150

319 8305.00 8

[0, 0, 0, 2, 6]

0.0 false false 3 150

320 1090.00 1

[1, 0, 0, 2, 6]

1.0 false false 3 150

321 1200.00 1

[2, 0, 0, 2, 6]

2.0 false false 3 150

322 1710.00 1

[3, 0, 0, 2, 6]

3.0 false false 3 150

323 1290.00 1

[0, 1, 0, 2, 6]

0.0 true false 3 150

324 -50.00 1

[1, 1, 0, 2, 6]

1.0 true false 3 150

325 1650.00 1

[2, 1, 0, 2, 6]

2.0 true false 3 150

326 510.00 1

[3, 1, 0, 2, 6]

3.0 true false 3 150

327 340.00 1

[0, 0, 1, 2, 6]

0.0 false true 3 150

328 1170.00 1

[1, 0, 1, 2, 6]

1.0 false true 3 150

329 8660.00 2

[2, 0, 1, 2, 6]

2.0 false true 3 150

330 1960.00 1

[3, 0, 1, 2, 6]

3.0 false true 3 150

331 8810.00 2

[0, 1, 1, 2, 6]

0.0 true true 3 150

332 2180.00 1

[1, 1, 1, 2, 6]

1.0 true true 3 150

333 8546.67 3

[2, 1, 1, 2, 6]

2.0 true true 3 150

334 8732.50 4

[3, 1, 1, 2, 6]

3.0 true true 3 150

335 8864.00 5

GridModel has 16 tuples.

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 240.0

max = 10020.0

ave = 8732.7

sd = 1594.6601898875201

se = 159.466018988752

sum = 873270.0

sumsq = 7.8777561E9

n = 100

Checks complete: 281542 ms elapsed

Solution: [3, 1, 1, 0, 5]

Search space has 5 dimensions

Point Mutation Rate

[0]

0.0

0 2382.32 95

[1]

1.0

1 4389.24 119

[2]

2.0

2 7838.31 655

[3]

3.0

3 8034.35 811

Flip at least one bit?

[0]

false

0 3344.39 205

[1]

true

1 7941.01 1475

Use shift Buffer?

[0]

false

0 1457.44 172

[1]

true

1 8055.64 1508

nResamples

[0]

1

0 8054.67 1241

[1]

2

1 6186.82 280

[2]

3

2 4216.60 159

sequence length

[0]

5

0 580.40 50

[1]

10

1 1767.12 52

[2]

15

2 1964.42 52

[3]

20

3 2621.23 57

[4]

50

4 5012.94 85

[5]

100

5 8624.87 1127

[6]

150

6 7314.36 257

Point Mutation Rate

Flip at least one bit?

[0, 0]

0.0 false

0 876.98 43

[1, 0]

1.0 false

1 3638.43 51

[2, 0]

2.0 false

2 3965.19 54

[3, 0]

3.0 false

3 4354.56 57

[0, 1]

0.0 true

4 3627.12 52

[1, 1]

1.0 true

5 4952.35 68

[2, 1]

2.0 true

6 8186.31 601

[3, 1]

3.0 true

7 8312.53 754

Point Mutation Rate

Use shift Buffer?

[0, 0]

0.0 false

0 1234.65 43

[1, 0]

1.0 false

1 1457.62 42

[2, 0]

2.0 false

2 1690.45 44

[3, 0]

3.0 false

3 1441.63 43

[0, 1]

0.0 true

4 3331.35 52

[1, 1]

1.0 true

5 5988.31 77

[2, 1]

2.0 true

6 8281.03 611

[3, 1]

3.0 true

7 8403.48 768

Point Mutation Rate

nResamples

[0, 0]

0.0 1

0 3484.55 33

[1, 0]

1.0 1

1 4826.96 46

[2, 0]

2.0 1

2 8282.43 535

[3, 0]

3.0 1

3 8337.66 627

[0, 1]

0.0 2

4 2152.81 32

[1, 1]

1.0 2

5 4175.41 37

[2, 1]

2.0 2

6 6451.41 78

[3, 1]

3.0 2

7 7561.80 133

[0, 2]

0.0 3

8 1414.67 30

[1, 2]

1.0 3

9 4049.72 36

[2, 2]

2.0 3

10 4756.67 42

[3, 2]

3.0 3

11 5537.84 51

Point Mutation Rate

sequence length

[0, 0]

0.0 5

0 600.83 12

[1, 0]

1.0 5

1 421.67 12

[2, 0]

2.0 5

2 615.38 13

[3, 0]

3.0 5

3 673.08 13

[0, 1]

0.0 10

4 1240.00 12

[1, 1]

1.0 10

5 2048.33 12

[2, 1]

2.0 10

6 1746.43 14

[3, 1]

3.0 10

7 1998.57 14

[0, 2]

0.0 15

8 2061.67 12

[1, 2]

1.0 15

9 1979.17 12

[2, 2]

2.0 15

10 1847.14 14

[3, 2]

3.0 15

11 1985.71 14

[0, 3]

0.0 20

12 1250.00 12

[1, 3]

1.0 20

13 3050.77 13

[2, 3]

2.0 20

14 2812.00 15

[3, 3]

3.0 20

15 3092.35 17

[0, 4]

0.0 50

16 2820.00 16

[1, 4]

1.0 50

17 4640.56 18

[2, 4]

2.0 50

18 5499.58 24

[3, 4]

3.0 50

19 6128.15 27

[0, 5]

0.0 100

20 4202.50 16

[1, 5]

1.0 100

21 6846.55 29

[2, 5]

2.0 100

22 8697.94 480

[3, 5]

3.0 100

23 8769.82 602

[0, 6]

0.0 150

24 3475.33 15

[1, 6]

1.0 150

25 6399.57 23

[2, 6]

2.0 150

26 7648.42 95

[3, 6]

3.0 150

27 7692.50 124

Flip at least one bit?

Use shift Buffer?

[0, 0]

false false

0 1378.10 84

[1, 0]

true false

1 1533.18 88

[0, 1]

false true

2 4709.42 121

[1, 1]

true true

3 8347.56 1387

Flip at least one bit?

nResamples

[0, 0]

false 1

0 3953.78 74

[1, 0]

true 1

1 8314.70 1167

[0, 1]

false 2

2 3082.12 66

[1, 1]

true 2

3 7144.35 214

[0, 2]

false 3

4 2916.92 65

[1, 2]

true 3

5 5115.32 94

Flip at least one bit?

sequence length

[0, 0]

false 5

0 465.83 24

[1, 0]

true 5

1 686.15 26

[0, 1]

false 10

2 1433.75 24

[1, 1]

true 10

3 2052.86 28

[0, 2]

false 15

4 1848.75 24

[1, 2]

true 15

5 2063.57 28

[0, 3]

false 20

6 2505.00 26

[1, 3]

true 20

7 2718.71 31

[0, 4]

false 50

8 3955.76 33

[1, 4]

true 50

9 5683.85 52

[0, 5]

false 100

10 5938.54 41

[1, 5]

true 100

11 8726.29 1086

[0, 6]

false 150

12 4742.12 33

[1, 6]

true 150

13 7693.30 224

Use shift Buffer?

nResamples

[0, 0]

false 1

0 1691.36 59

[1, 0]

true 1

1 8372.29 1182

[0, 1]

false 2

2 1460.00 57

[1, 1]

true 2

3 7395.02 223

[0, 2]

false 3

4 1208.39 56

[1, 2]

true 3

5 5852.14 103

Use shift Buffer?

sequence length

[0, 0]

false 5

0 671.67 24

[1, 0]

true 5

1 496.15 26

[0, 1]

false 10

2 1991.25 24

[1, 1]

true 10

3 1575.00 28

[0, 2]

false 15

4 1749.60 25

[1, 2]

true 15

5 2163.33 27

[0, 3]

false 20

6 1954.17 24

[1, 3]

true 20

7 3106.36 33

[0, 4]

false 50

8 1405.60 25

[1, 4]

true 50

9 6516.00 60

[0, 5]

false 100

10 1477.31 26

[1, 5]

true 100

11 8793.66 1101

[0, 6]

false 150

12 940.83 24

[1, 6]

true 150

13 7970.86 233

nResamples

sequence length

[0, 0]

1 5

0 522.22 18

[1, 0]

2 5

1 553.13 16

[2, 0]

3 5

2 673.13 16

[0, 1]

1 10

3 1851.11 18

[1, 1]

2 10

4 1856.11 18

[2, 1]

3 10

5 1572.50 16

[0, 2]

1 15

6 2294.21 19

[1, 2]

2 15

7 1719.41 17

[2, 2]

3 15

8 1833.13 16

[0, 3]

1 20

9 3284.55 22

[1, 3]

2 20

10 2443.33 18

[2, 3]

3 20

11 1951.18 17

[0, 4]

1 50

12 6256.22 37

[1, 4]

2 50

13 3538.33 24

[2, 4]

3 50

14 4570.83 24

[0, 5]

1 100

15 8691.31 931

[1, 5]

2 100

16 8622.16 153

[2, 5]

3 100

17 7196.05 43

[0, 6]

1 150

18 7725.41 196

[1, 6]

2 150

19 6256.76 34

[2, 6]

3 150

20 5662.22 27

Point Mutation Rate

Flip at least one bit?

Use shift Buffer?

nResamples

sequence length

[0, 0, 0, 0, 0]

0.0 false false 1 5

0 920.00 1

[1, 0, 0, 0, 0]

1.0 false false 1 5

1 240.00 1

[2, 0, 0, 0, 0]

2.0 false false 1 5

2 730.00 1

[3, 0, 0, 0, 0]

3.0 false false 1 5

3 340.00 1

[0, 1, 0, 0, 0]

0.0 true false 1 5

4 -20.00 1

[1, 1, 0, 0, 0]

1.0 true false 1 5

5 500.00 1

[2, 1, 0, 0, 0]

2.0 true false 1 5

6 1080.00 1

[3, 1, 0, 0, 0]

3.0 true false 1 5

7 330.00 1

[0, 0, 1, 0, 0]

0.0 false true 1 5

8 1110.00 1

[1, 0, 1, 0, 0]

1.0 false true 1 5

9 -210.00 1

[2, 0, 1, 0, 0]

2.0 false true 1 5

10 -180.00 1

[3, 0, 1, 0, 0]

3.0 false true 1 5

11 50.00 1

[0, 1, 1, 0, 0]

0.0 true true 1 5

12 70.00 1

[1, 1, 1, 0, 0]

1.0 true true 1 5

13 480.00 1

[2, 1, 1, 0, 0]

2.0 true true 1 5

14 745.00 2

[3, 1, 1, 0, 0]

3.0 true true 1 5

15 1235.00 2

[0, 0, 0, 1, 0]

0.0 false false 2 5

16 -30.00 1

[1, 0, 0, 1, 0]

1.0 false false 2 5

17 1110.00 1

[2, 0, 0, 1, 0]

2.0 false false 2 5

18 200.00 1

[3, 0, 0, 1, 0]

3.0 false false 2 5

19 -140.00 1

[0, 1, 0, 1, 0]

0.0 true false 2 5

20 710.00 1

[1, 1, 0, 1, 0]

1.0 true false 2 5

21 410.00 1

[2, 1, 0, 1, 0]

2.0 true false 2 5

22 640.00 1

[3, 1, 0, 1, 0]

3.0 true false 2 5

23 200.00 1

[0, 0, 1, 1, 0]

0.0 false true 2 5

24 -400.00 1

[1, 0, 1, 1, 0]

1.0 false true 2 5

25 200.00 1

[2, 0, 1, 1, 0]

2.0 false true 2 5

26 1040.00 1

[3, 0, 1, 1, 0]

3.0 false true 2 5

27 2550.00 1

[0, 1, 1, 1, 0]

0.0 true true 2 5

28 690.00 1

[1, 1, 1, 1, 0]

1.0 true true 2 5

29 160.00 1

[2, 1, 1, 1, 0]

2.0 true true 2 5

30 570.00 1

[3, 1, 1, 1, 0]

3.0 true true 2 5

31 940.00 1

[0, 0, 0, 2, 0]

0.0 false false 3 5

32 370.00 1

[1, 0, 0, 2, 0]

1.0 false false 3 5

33 570.00 1

[2, 0, 0, 2, 0]

2.0 false false 3 5

34 850.00 1

[3, 0, 0, 2, 0]

3.0 false false 3 5

35 800.00 1

[0, 1, 0, 2, 0]

0.0 true false 3 5

36 3580.00 1

[1, 1, 0, 2, 0]

1.0 true false 3 5

37 1290.00 1

[2, 1, 0, 2, 0]

2.0 true false 3 5

38 1140.00 1

[3, 1, 0, 2, 0]

3.0 true false 3 5

39 300.00 1

[0, 0, 1, 2, 0]

0.0 false true 3 5

40 240.00 1

[1, 0, 1, 2, 0]

1.0 false true 3 5

41 150.00 1

[2, 0, 1, 2, 0]

2.0 false true 3 5

42 240.00 1

[3, 0, 1, 2, 0]

3.0 false true 3 5

43 430.00 1

[0, 1, 1, 2, 0]

0.0 true true 3 5

44 -30.00 1

[1, 1, 1, 2, 0]

1.0 true true 3 5

45 160.00 1

[2, 1, 1, 2, 0]

2.0 true true 3 5

46 200.00 1

[3, 1, 1, 2, 0]

3.0 true true 3 5

47 480.00 1

[0, 0, 0, 0, 1]

0.0 false false 1 10

48 2060.00 1

[1, 0, 0, 0, 1]

1.0 false false 1 10

49 2830.00 1

[2, 0, 0, 0, 1]

2.0 false false 1 10

50 1260.00 1

[3, 0, 0, 0, 1]

3.0 false false 1 10

51 1310.00 1

[0, 1, 0, 0, 1]

0.0 true false 1 10

52 890.00 1

[1, 1, 0, 0, 1]

1.0 true false 1 10

53 520.00 1

[2, 1, 0, 0, 1]

2.0 true false 1 10

54 1850.00 1

[3, 1, 0, 0, 1]

3.0 true false 1 10

55 2410.00 1

[0, 0, 1, 0, 1]

0.0 false true 1 10

56 4020.00 1

[1, 0, 1, 0, 1]

1.0 false true 1 10

57 3570.00 1

[2, 0, 1, 0, 1]

2.0 false true 1 10

58 1100.00 1

[3, 0, 1, 0, 1]

3.0 false true 1 10

59 820.00 1

[0, 1, 1, 0, 1]

0.0 true true 1 10

60 2120.00 1

[1, 1, 1, 0, 1]

1.0 true true 1 10

61 2590.00 1

[2, 1, 1, 0, 1]

2.0 true true 1 10

62 505.00 2

[3, 1, 1, 0, 1]

3.0 true true 1 10

63 2480.00 2

[0, 0, 0, 1, 1]

0.0 false false 2 10

64 1660.00 1

[1, 0, 0, 1, 1]

1.0 false false 2 10

65 1950.00 1

[2, 0, 0, 1, 1]

2.0 false false 2 10

66 1900.00 1

[3, 0, 0, 1, 1]

3.0 false false 2 10

67 1640.00 1

[0, 1, 0, 1, 1]

0.0 true false 2 10

68 2000.00 1

[1, 1, 0, 1, 1]

1.0 true false 2 10

69 1990.00 1

[2, 1, 0, 1, 1]

2.0 true false 2 10

70 3570.00 1

[3, 1, 0, 1, 1]

3.0 true false 2 10

71 5710.00 1

[0, 0, 1, 1, 1]

0.0 false true 2 10

72 -280.00 1

[1, 0, 1, 1, 1]

1.0 false true 2 10

73 1480.00 1

[2, 0, 1, 1, 1]

2.0 false true 2 10

74 730.00 1

[3, 0, 1, 1, 1]

3.0 false true 2 10

75 520.00 1

[0, 1, 1, 1, 1]

0.0 true true 2 10

76 1140.00 1

[1, 1, 1, 1, 1]

1.0 true true 2 10

77 900.00 1

[2, 1, 1, 1, 1]

2.0 true true 2 10

78 2890.00 2

[3, 1, 1, 1, 1]

3.0 true true 2 10

79 1360.00 2

[0, 0, 0, 2, 1]

0.0 false false 3 10

80 100.00 1

[1, 0, 0, 2, 1]

1.0 false false 3 10

81 1120.00 1

[2, 0, 0, 2, 1]

2.0 false false 3 10

82 670.00 1

[3, 0, 0, 2, 1]

3.0 false false 3 10

83 390.00 1

[0, 1, 0, 2, 1]

0.0 true false 3 10

84 1530.00 1

[1, 1, 0, 2, 1]

1.0 true false 3 10

85 3580.00 1

[2, 1, 0, 2, 1]

2.0 true false 3 10

86 3570.00 1

[3, 1, 0, 2, 1]

3.0 true false 3 10

87 3280.00 1

[0, 0, 1, 2, 1]

0.0 false true 3 10

88 -450.00 1

[1, 0, 1, 2, 1]

1.0 false true 3 10

89 1460.00 1

[2, 0, 1, 2, 1]

2.0 false true 3 10

90 2670.00 1

[3, 0, 1, 2, 1]

3.0 false true 3 10

91 1880.00 1

[0, 1, 1, 2, 1]

0.0 true true 3 10

92 90.00 1

[1, 1, 1, 2, 1]

1.0 true true 3 10

93 2590.00 1

[2, 1, 1, 2, 1]

2.0 true true 3 10

94 340.00 1

[3, 1, 1, 2, 1]

3.0 true true 3 10

95 2340.00 1

[0, 0, 0, 0, 2]

0.0 false false 1 15

96 1120.00 1

[1, 0, 0, 0, 2]

1.0 false false 1 15

97 3770.00 1

[2, 0, 0, 0, 2]

2.0 false false 1 15

98 1300.00 1

[3, 0, 0, 0, 2]

3.0 false false 1 15

99 2630.00 1

[0, 1, 0, 0, 2]

0.0 true false 1 15

100 2810.00 1

[1, 1, 0, 0, 2]

1.0 true false 1 15

101 1130.00 1

[2, 1, 0, 0, 2]

2.0 true false 1 15

102 2740.00 2

[3, 1, 0, 0, 2]

3.0 true false 1 15

103 1390.00 1

[0, 0, 1, 0, 2]

0.0 false true 1 15

104 460.00 1

[1, 0, 1, 0, 2]

1.0 false true 1 15

105 2650.00 1

[2, 0, 1, 0, 2]

2.0 false true 1 15

106 2170.00 1

[3, 0, 1, 0, 2]

3.0 false true 1 15

107 860.00 1

[0, 1, 1, 0, 2]

0.0 true true 1 15

108 6580.00 1

[1, 1, 1, 0, 2]

1.0 true true 1 15

109 1900.00 1

[2, 1, 1, 0, 2]

2.0 true true 1 15

110 2620.00 2

[3, 1, 1, 0, 2]

3.0 true true 1 15

111 2050.00 2

[0, 0, 0, 1, 2]

0.0 false false 2 15

112 390.00 1

[1, 0, 0, 1, 2]

1.0 false false 2 15

113 1880.00 1

[2, 0, 0, 1, 2]

2.0 false false 2 15

114 1010.00 1

[3, 0, 0, 1, 2]

3.0 false false 2 15

115 1510.00 1

[0, 1, 0, 1, 2]

0.0 true false 2 15

116 2400.00 1

[1, 1, 0, 1, 2]

1.0 true false 2 15

117 1160.00 1

[2, 1, 0, 1, 2]

2.0 true false 2 15

118 1890.00 1

[3, 1, 0, 1, 2]

3.0 true false 2 15

119 1950.00 1

[0, 0, 1, 1, 2]

0.0 false true 2 15

120 -210.00 1

[1, 0, 1, 1, 2]

1.0 false true 2 15

121 3900.00 1

[2, 0, 1, 1, 2]

2.0 false true 2 15

122 990.00 1

[3, 0, 1, 1, 2]

3.0 false true 2 15

123 2780.00 1

[0, 1, 1, 1, 2]

0.0 true true 2 15

124 1590.00 1

[1, 1, 1, 1, 2]

1.0 true true 2 15

125 1970.00 1

[2, 1, 1, 1, 2]

2.0 true true 2 15

126 1490.00 1

[3, 1, 1, 1, 2]

3.0 true true 2 15

127 2265.00 2

[0, 0, 0, 2, 2]

0.0 false false 3 15

128 3470.00 1

[1, 0, 0, 2, 2]

1.0 false false 3 15

129 700.00 1

[2, 0, 0, 2, 2]

2.0 false false 3 15

130 230.00 1

[3, 0, 0, 2, 2]

3.0 false false 3 15

131 2000.00 1

[0, 1, 0, 2, 2]

0.0 true false 3 15

132 1220.00 1

[1, 1, 0, 2, 2]

1.0 true false 3 15

133 2620.00 1

[2, 1, 0, 2, 2]

2.0 true false 3 15

134 960.00 1

[3, 1, 0, 2, 2]

3.0 true false 3 15

135 720.00 1

[0, 0, 1, 2, 2]

0.0 false true 3 15

136 3320.00 1

[1, 0, 1, 2, 2]

1.0 false true 3 15

137 270.00 1

[2, 0, 1, 2, 2]

2.0 false true 3 15

138 3740.00 1

[3, 0, 1, 2, 2]

3.0 false true 3 15

139 3430.00 1

[0, 1, 1, 2, 2]

0.0 true true 3 15

140 1590.00 1

[1, 1, 1, 2, 2]

1.0 true true 3 15

141 1800.00 1

[2, 1, 1, 2, 2]

2.0 true true 3 15

142 1360.00 1

[3, 1, 1, 2, 2]

3.0 true true 3 15

143 1900.00 1

[0, 0, 0, 0, 3]

0.0 false false 1 20

144 900.00 1

[1, 0, 0, 0, 3]

1.0 false false 1 20

145 3260.00 1

[2, 0, 0, 0, 3]

2.0 false false 1 20

146 5300.00 1

[3, 0, 0, 0, 3]

3.0 false false 1 20

147 1460.00 1

[0, 1, 0, 0, 3]

0.0 true false 1 20

148 1870.00 1

[1, 1, 0, 0, 3]

1.0 true false 1 20

149 1800.00 1

[2, 1, 0, 0, 3]

2.0 true false 1 20

150 3720.00 1

[3, 1, 0, 0, 3]

3.0 true false 1 20

151 4060.00 1

[0, 0, 1, 0, 3]

0.0 false true 1 20

152 610.00 1

[1, 0, 1, 0, 3]

1.0 false true 1 20

153 1130.00 1

[2, 0, 1, 0, 3]

2.0 false true 1 20

154 3320.00 2

[3, 0, 1, 0, 3]

3.0 false true 1 20

155 3870.00 2

[0, 1, 1, 0, 3]

0.0 true true 1 20

156 3800.00 1

[1, 1, 1, 0, 3]

1.0 true true 1 20

157 6000.00 2

[2, 1, 1, 0, 3]

2.0 true true 1 20

158 3545.00 2

[3, 1, 1, 0, 3]

3.0 true true 1 20

159 3626.67 3

[0, 0, 0, 1, 3]

0.0 false false 2 20

160 920.00 1

[1, 0, 0, 1, 3]

1.0 false false 2 20

161 900.00 1

[2, 0, 0, 1, 3]

2.0 false false 2 20

162 3040.00 1

[3, 0, 0, 1, 3]

3.0 false false 2 20

163 2540.00 1

[0, 1, 0, 1, 3]

0.0 true false 2 20

164 3160.00 1

[1, 1, 0, 1, 3]

1.0 true false 2 20

165 3180.00 1

[2, 1, 0, 1, 3]

2.0 true false 2 20

166 1020.00 1

[3, 1, 0, 1, 3]

3.0 true false 2 20

167 1210.00 1

[0, 0, 1, 1, 3]

0.0 false true 2 20

168 1100.00 1

[1, 0, 1, 1, 3]

1.0 false true 2 20

169 4000.00 1

[2, 0, 1, 1, 3]

2.0 false true 2 20

170 3190.00 1

[3, 0, 1, 1, 3]

3.0 false true 2 20

171 3970.00 1

[0, 1, 1, 1, 3]

0.0 true true 2 20

172 1190.00 1

[1, 1, 1, 1, 3]

1.0 true true 2 20

173 6480.00 1

[2, 1, 1, 1, 3]

2.0 true true 2 20

174 1510.00 2

[3, 1, 1, 1, 3]

3.0 true true 2 20

175 2530.00 2

[0, 0, 0, 2, 3]

0.0 false false 3 20

176 350.00 1

[1, 0, 0, 2, 3]

1.0 false false 3 20

177 460.00 1

[2, 0, 0, 2, 3]

2.0 false false 3 20

178 2560.00 1

[3, 0, 0, 2, 3]

3.0 false false 3 20

179 1270.00 1

[0, 1, 0, 2, 3]

0.0 true false 3 20

180 770.00 1

[1, 1, 0, 2, 3]

1.0 true false 3 20

181 1350.00 1

[2, 1, 0, 2, 3]

2.0 true false 3 20

182 1060.00 1

[3, 1, 0, 2, 3]

3.0 true false 3 20

183 740.00 1

[0, 0, 1, 2, 3]

0.0 false true 3 20

184 -460.00 1

[1, 0, 1, 2, 3]

1.0 false true 3 20

185 3860.00 1

[2, 0, 1, 2, 3]

2.0 false true 3 20

186 3340.00 1

[3, 0, 1, 2, 3]

3.0 false true 3 20

187 7050.00 1

[0, 1, 1, 2, 3]

0.0 true true 3 20

188 790.00 1

[1, 1, 1, 2, 3]

1.0 true true 3 20

189 1240.00 1

[2, 1, 1, 2, 3]

2.0 true true 3 20

190 2200.00 1

[3, 1, 1, 2, 3]

3.0 true true 3 20

191 3295.00 2

[0, 0, 0, 0, 4]

0.0 false false 1 50

192 980.00 1

[1, 0, 0, 0, 4]

1.0 false false 1 50

193 110.00 1

[2, 0, 0, 0, 4]

2.0 false false 1 50

194 640.00 1

[3, 0, 0, 0, 4]

3.0 false false 1 50

195 7560.00 1

[0, 1, 0, 0, 4]

0.0 true false 1 50

196 2850.00 1

[1, 1, 0, 0, 4]

1.0 true false 1 50

197 2650.00 1

[2, 1, 0, 0, 4]

2.0 true false 1 50

198 820.00 1

[3, 1, 0, 0, 4]

3.0 true false 1 50

199 1120.00 1

[0, 0, 1, 0, 4]

0.0 false true 1 50

200 3740.00 1

[1, 0, 1, 0, 4]

1.0 false true 1 50

201 5010.00 2

[2, 0, 1, 0, 4]

2.0 false true 1 50

202 8916.67 3

[3, 0, 1, 0, 4]

3.0 false true 1 50

203 7385.00 2

[0, 1, 1, 0, 4]

0.0 true true 1 50

204 8340.00 2

[1, 1, 1, 0, 4]

1.0 true true 1 50

205 8993.33 3

[2, 1, 1, 0, 4]

2.0 true true 1 50

206 6718.57 7

[3, 1, 1, 0, 4]

3.0 true true 1 50

207 7642.22 9

[0, 0, 0, 1, 4]

0.0 false false 2 50

208 570.00 1

[1, 0, 0, 1, 4]

1.0 false false 2 50

209 700.00 1

[2, 0, 0, 1, 4]

2.0 false false 2 50

210 2410.00 1

[3, 0, 0, 1, 4]

3.0 false false 2 50

211 1380.00 1

[0, 1, 0, 1, 4]

0.0 true false 2 50

212 1390.00 2

[1, 1, 0, 1, 4]

1.0 true false 2 50

213 1610.00 1

[2, 1, 0, 1, 4]

2.0 true false 2 50

214 190.00 1

[3, 1, 0, 1, 4]

3.0 true false 2 50

215 500.00 1

[0, 0, 1, 1, 4]

0.0 false true 2 50

216 -140.00 1

[1, 0, 1, 1, 4]

1.0 false true 2 50

217 5670.00 2

[2, 0, 1, 1, 4]

2.0 false true 2 50

218 1190.00 1

[3, 0, 1, 1, 4]

3.0 false true 2 50

219 6375.00 2

[0, 1, 1, 1, 4]

0.0 true true 2 50

220 5530.00 2

[1, 1, 1, 1, 4]

1.0 true true 2 50

221 3990.00 2

[2, 1, 1, 1, 4]

2.0 true true 2 50

222 4760.00 2

[3, 1, 1, 1, 4]

3.0 true true 2 50

223 7026.67 3

[0, 0, 0, 2, 4]

0.0 false false 3 50

224 320.00 1

[1, 0, 0, 2, 4]

1.0 false false 3 50

225 1480.00 1

[2, 0, 0, 2, 4]

2.0 false false 3 50

226 1460.00 1

[3, 0, 0, 2, 4]

3.0 false false 3 50

227 740.00 1

[0, 1, 0, 2, 4]

0.0 true false 3 50

228 900.00 1

[1, 1, 0, 2, 4]

1.0 true false 3 50

229 660.00 1

[2, 1, 0, 2, 4]

2.0 true false 3 50

230 2500.00 1

[3, 1, 0, 2, 4]

3.0 true false 3 50

231 210.00 1

[0, 0, 1, 2, 4]

0.0 false true 3 50

232 490.00 2

[1, 0, 1, 2, 4]

1.0 false true 3 50

233 4190.00 1

[2, 0, 1, 2, 4]

2.0 false true 3 50

234 5950.00 2

[3, 0, 1, 2, 4]

3.0 false true 3 50

235 7350.00 2

[0, 1, 1, 2, 4]

0.0 true true 3 50

236 4400.00 1

[1, 1, 1, 2, 4]

1.0 true true 3 50

237 7905.00 2

[2, 1, 1, 2, 4]

2.0 true true 3 50

238 9193.33 3

[3, 1, 1, 2, 4]

3.0 true true 3 50

239 7290.00 3

[0, 0, 0, 0, 5]

0.0 false false 1 100

240 1810.00 1

[1, 0, 0, 0, 5]

1.0 false false 1 100

241 480.00 1

[2, 0, 0, 0, 5]

2.0 false false 1 100

242 3620.00 1

[3, 0, 0, 0, 5]

3.0 false false 1 100

243 1570.00 1

[0, 1, 0, 0, 5]

0.0 true false 1 100

244 1590.00 1

[1, 1, 0, 0, 5]

1.0 true false 1 100

245 1120.00 1

[2, 1, 0, 0, 5]

2.0 true false 1 100

246 2610.00 2

[3, 1, 0, 0, 5]

3.0 true false 1 100

247 1005.00 2

[0, 0, 1, 0, 5]

0.0 false true 1 100

248 -220.00 1

[1, 0, 1, 0, 5]

1.0 false true 1 100

249 8826.67 3

[2, 0, 1, 0, 5]

2.0 false true 1 100

250 9417.50 4

[3, 0, 1, 0, 5]

3.0 false true 1 100

251 8340.00 4

[0, 1, 1, 0, 5]

0.0 true true 1 100

252 9670.00 3

[1, 1, 1, 0, 5]

1.0 true true 1 100

253 7330.00 8

[2, 1, 1, 0, 5]

2.0 true true 1 100

254 8759.33 416

[3, 1, 1, 0, 5]

3.0 true true 1 100

255 8807.82 482

[0, 0, 0, 1, 5]

0.0 false false 2 100

256 1010.00 1

[1, 0, 0, 1, 5]

1.0 false false 2 100

257 2300.00 1

[2, 0, 0, 1, 5]

2.0 false false 2 100

258 1740.00 1

[3, 0, 0, 1, 5]

3.0 false false 2 100

259 650.00 1

[0, 1, 0, 1, 5]

0.0 true false 2 100

260 1730.00 1

[1, 1, 0, 1, 5]

1.0 true false 2 100

261 1710.00 1

[2, 1, 0, 1, 5]

2.0 true false 2 100

262 3190.00 1

[3, 1, 0, 1, 5]

3.0 true false 2 100

263 620.00 1

[0, 0, 1, 1, 5]

0.0 false true 2 100

264 -100.00 1

[1, 0, 1, 1, 5]

1.0 false true 2 100

265 8875.00 2

[2, 0, 1, 1, 5]

2.0 false true 2 100

266 9363.33 3

[3, 0, 1, 1, 5]

3.0 false true 2 100

267 7960.00 3

[0, 1, 1, 1, 5]

0.0 true true 2 100

268 8720.00 2

[1, 1, 1, 1, 5]

1.0 true true 2 100

269 8862.50 4

[2, 1, 1, 1, 5]

2.0 true true 2 100

270 8987.50 40

[3, 1, 1, 1, 5]

3.0 true true 2 100

271 9158.11 90

[0, 0, 0, 2, 5]

0.0 false false 3 100

272 1390.00 1

[1, 0, 0, 2, 5]

1.0 false false 3 100

273 1350.00 1

[2, 0, 0, 2, 5]

2.0 false false 3 100

274 340.00 1

[3, 0, 0, 2, 5]

3.0 false false 3 100

275 1730.00 1

[0, 1, 0, 2, 5]

0.0 true false 3 100

276 780.00 1

[1, 1, 0, 2, 5]

1.0 true false 3 100

277 1280.00 1

[2, 1, 0, 2, 5]

2.0 true false 3 100

278 950.00 1

[3, 1, 0, 2, 5]

3.0 true false 3 100

279 220.00 1

[0, 0, 1, 2, 5]

0.0 false true 3 100

280 270.00 1

[1, 0, 1, 2, 5]

1.0 false true 3 100

281 7435.00 2

[2, 0, 1, 2, 5]

2.0 false true 3 100

282 8600.00 2

[3, 0, 1, 2, 5]

3.0 false true 3 100

283 8746.67 3

[0, 1, 1, 2, 5]

0.0 true true 3 100

284 6265.00 2

[1, 1, 1, 2, 5]

1.0 true true 3 100

285 9280.00 4

[2, 1, 1, 2, 5]

2.0 true true 3 100

286 9201.25 8

[3, 1, 1, 2, 5]

3.0 true true 3 100

287 9196.15 13

[0, 0, 0, 0, 6]

0.0 false false 1 150

288 960.00 1

[1, 0, 0, 0, 6]

1.0 false false 1 150

289 1090.00 1

[2, 0, 0, 0, 6]

2.0 false false 1 150

290 630.00 1

[3, 0, 0, 0, 6]

3.0 false false 1 150

291 730.00 1

[0, 1, 0, 0, 6]

0.0 true false 1 150

292 510.00 1

[1, 1, 0, 0, 6]

1.0 true false 1 150

293 260.00 1

[2, 1, 0, 0, 6]

2.0 true false 1 150

294 1460.00 1

[3, 1, 0, 0, 6]

3.0 true false 1 150

295 750.00 1

[0, 0, 1, 0, 6]

0.0 false true 1 150

296 2390.00 1

[1, 0, 1, 0, 6]

1.0 false true 1 150

297 7865.00 2

[2, 0, 1, 0, 6]

2.0 false true 1 150

298 6730.00 2

[3, 0, 1, 0, 6]

3.0 false true 1 150

299 8760.00 3

[0, 1, 1, 0, 6]

0.0 true true 1 150

300 8456.67 3

[1, 1, 1, 0, 6]

1.0 true true 1 150

301 8064.00 5

[2, 1, 1, 0, 6]

2.0 true true 1 150

302 8170.81 74

[3, 1, 1, 0, 6]

3.0 true true 1 150

303 7955.10 98

[0, 0, 0, 1, 6]

0.0 false false 2 150

304 250.00 1

[1, 0, 0, 1, 6]

1.0 false false 2 150

305 2060.00 1

[2, 0, 0, 1, 6]

2.0 false false 2 150

306 1440.00 1

[3, 0, 0, 1, 6]

3.0 false false 2 150

307 1150.00 1

[0, 1, 0, 1, 6]

0.0 true false 2 150

308 470.00 1

[1, 1, 0, 1, 6]

1.0 true false 2 150

309 1190.00 1

[2, 1, 0, 1, 6]

2.0 true false 2 150

310 520.00 1

[3, 1, 0, 1, 6]

3.0 true false 2 150

311 1370.00 1

[0, 0, 1, 1, 6]

0.0 false true 2 150

312 -50.00 1

[1, 0, 1, 1, 6]

1.0 false true 2 150

313 7920.00 2

[2, 0, 1, 1, 6]

2.0 false true 2 150

314 8595.00 2

[3, 0, 1, 1, 6]

3.0 false true 2 150

315 6990.00 2

[0, 1, 1, 1, 6]

0.0 true true 2 150

316 8920.00 2

[1, 1, 1, 1, 6]

1.0 true true 2 150

317 8296.67 3

[2, 1, 1, 1, 6]

2.0 true true 2 150

318 8025.00 6

[3, 1, 1, 1, 6]

3.0 true true 2 150

319 8305.00 8

[0, 0, 0, 2, 6]

0.0 false false 3 150

320 1090.00 1

[1, 0, 0, 2, 6]

1.0 false false 3 150

321 1200.00 1

[2, 0, 0, 2, 6]

2.0 false false 3 150

322 1710.00 1

[3, 0, 0, 2, 6]

3.0 false false 3 150

323 1290.00 1

[0, 1, 0, 2, 6]

0.0 true false 3 150

324 -50.00 1

[1, 1, 0, 2, 6]

1.0 true false 3 150

325 1650.00 1

[2, 1, 0, 2, 6]

2.0 true false 3 150

326 510.00 1

[3, 1, 0, 2, 6]

3.0 true false 3 150

327 340.00 1

[0, 0, 1, 2, 6]

0.0 false true 3 150

328 1170.00 1

[1, 0, 1, 2, 6]

1.0 false true 3 150

329 8660.00 2

[2, 0, 1, 2, 6]

2.0 false true 3 150

330 1960.00 1

[3, 0, 1, 2, 6]

3.0 false true 3 150

331 8810.00 2

[0, 1, 1, 2, 6]

0.0 true true 3 150

332 2180.00 1

[1, 1, 1, 2, 6]

1.0 true true 3 150

333 8546.67 3

[2, 1, 1, 2, 6]

2.0 true true 3 150

334 8732.50 4

[3, 1, 1, 2, 6]

3.0 true true 3 150

335 8864.00 5

GridModel has 16 tuples.

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 730.0

max = 10030.0

ave = 8939.8

sd = 1396.669906700523

se = 139.6669906700523

sum = 893980.0

sumsq = 8.1851204E9

n = 100

Checks complete: 277797 ms elapsed

Solution: [3, 1, 1, 0, 5]

Search space has 5 dimensions

Point Mutation Rate

[0]

0.0

0 2382.32 95

[1]

1.0

1 4389.24 119

[2]

2.0

2 8040.47 815

[3]

3.0

3 8148.18 987

Flip at least one bit?

[0]

false

0 3375.34 206

[1]

true

1 8093.12 1810

Use shift Buffer?

[0]

false

0 1453.93 173

[1]

true

1 8189.01 1843

nResamples

[0]

1

0 8178.92 1511

[1]

2

1 6690.98 346

[2]

3

2 4216.60 159

sequence length

[0]

5

0 580.40 50

[1]

10

1 1749.81 53

[2]

15

2 1948.87 53

[3]

20

3 2621.23 57

[4]

50

4 5097.93 87

[5]

100

5 8670.16 1451

[6]

150

6 7341.47 265

Point Mutation Rate

Flip at least one bit?

[0, 0]

0.0 false

0 876.98 43

[1, 0]

1.0 false

1 3638.43 51

[2, 0]

2.0 false

2 4069.82 55

[3, 0]

3.0 false

3 4354.56 57

[0, 1]

0.0 true

4 3627.12 52

[1, 1]

1.0 true

5 4952.35 68

[2, 1]

2.0 true

6 8327.82 760

[3, 1]

3.0 true

7 8380.69 930

Point Mutation Rate

Use shift Buffer?

[0, 0]

0.0 false

0 1234.65 43

[1, 0]

1.0 false

1 1457.62 42

[2, 0]

2.0 false

2 1690.45 44

[3, 0]

3.0 false

3 1428.18 44

[0, 1]

0.0 true

4 3331.35 52

[1, 1]

1.0 true

5 5988.31 77

[2, 1]

2.0 true

6 8402.85 771

[3, 1]

3.0 true

7 8461.73 943

Point Mutation Rate

nResamples

[0, 0]

0.0 1

0 3484.55 33

[1, 0]

1.0 1

1 4826.96 46

[2, 0]

2.0 1

2 8398.87 665

[3, 0]

3.0 1

3 8391.23 767

[0, 1]

0.0 2

4 2152.81 32

[1, 1]

1.0 2

5 4175.41 37

[2, 1]

2.0 2

6 7110.65 108

[3, 1]

3.0 2

7 7832.84 169

[0, 2]

0.0 3

8 1414.67 30

[1, 2]

1.0 3

9 4049.72 36

[2, 2]

2.0 3

10 4756.67 42

[3, 2]

3.0 3

11 5537.84 51

Point Mutation Rate

sequence length

[0, 0]

0.0 5

0 600.83 12

[1, 0]

1.0 5

1 421.67 12

[2, 0]

2.0 5

2 615.38 13

[3, 0]

3.0 5

3 673.08 13

[0, 1]

0.0 10

4 1240.00 12

[1, 1]

1.0 10

5 2048.33 12

[2, 1]

2.0 10

6 1746.43 14

[3, 1]

3.0 10

7 1922.00 15

[0, 2]

0.0 15

8 2061.67 12

[1, 2]

1.0 15

9 1979.17 12

[2, 2]

2.0 15

10 1800.00 15

[3, 2]

3.0 15

11 1985.71 14

[0, 3]

0.0 20

12 1250.00 12

[1, 3]

1.0 20

13 3050.77 13

[2, 3]

2.0 20

14 2812.00 15

[3, 3]

3.0 20

15 3092.35 17

[0, 4]

0.0 50

16 2820.00 16

[1, 4]

1.0 50

17 4640.56 18

[2, 4]

2.0 50

18 5668.40 25

[3, 4]

3.0 50

19 6184.29 28

[0, 5]

0.0 100

20 4202.50 16

[1, 5]

1.0 100

21 6846.55 29

[2, 5]

2.0 100

22 8755.38 636

[3, 5]

3.0 100

23 8761.29 770

[0, 6]

0.0 150

24 3475.33 15

[1, 6]

1.0 150

25 6399.57 23

[2, 6]

2.0 150

26 7641.44 97

[3, 6]

3.0 150

27 7730.38 130

Flip at least one bit?

Use shift Buffer?

[0, 0]

false false

0 1378.10 84

[1, 0]

true false

1 1525.51 89

[0, 1]

false true

2 4750.49 122

[1, 1]

true true

3 8432.76 1721

Flip at least one bit?

nResamples

[0, 0]

false 1

0 4030.67 75

[1, 0]

true 1

1 8395.58 1436

[0, 1]

false 2

2 3082.12 66

[1, 1]

true 2

3 7541.64 280

[0, 2]

false 3

4 2916.92 65

[1, 2]

true 3

5 5115.32 94

Flip at least one bit?

sequence length

[0, 0]

false 5

0 465.83 24

[1, 0]

true 5

1 686.15 26

[0, 1]

false 10

2 1433.75 24

[1, 1]

true 10

3 2011.38 29

[0, 2]

false 15

4 1848.75 24

[1, 2]

true 15

5 2031.72 29

[0, 3]

false 20

6 2505.00 26

[1, 3]

true 20

7 2718.71 31

[0, 4]

false 50

8 3955.76 33

[1, 4]

true 50

9 5795.93 54

[0, 5]

false 100

10 6028.57 42

[1, 5]

true 100

11 8748.90 1409

[0, 6]

false 150

12 4742.12 33

[1, 6]

true 150

13 7711.21 232

Use shift Buffer?

nResamples

[0, 0]

false 1

0 1691.36 59

[1, 0]

true 1

1 8442.53 1452

[0, 1]

false 2

2 1449.48 58

[1, 1]

true 2

3 7746.56 288

[0, 2]

false 3

4 1208.39 56

[1, 2]

true 3

5 5852.14 103

Use shift Buffer?

sequence length

[0, 0]

false 5

0 671.67 24

[1, 0]

true 5

1 496.15 26

[0, 1]

false 10

2 1945.60 25

[1, 1]

true 10

3 1575.00 28

[0, 2]

false 15

4 1749.60 25

[1, 2]

true 15

5 2126.79 28

[0, 3]

false 20

6 1954.17 24

[1, 3]

true 20

7 3106.36 33

[0, 4]

false 50

8 1405.60 25

[1, 4]

true 50

9 6586.77 62

[0, 5]

false 100

10 1477.31 26

[1, 5]

true 100

11 8801.40 1425

[0, 6]

false 150

12 940.83 24

[1, 6]

true 150

13 7978.88 241

nResamples

sequence length

[0, 0]

1 5

0 522.22 18

[1, 0]

2 5

1 553.13 16

[2, 0]

3 5

2 673.13 16

[0, 1]

1 10

3 1851.11 18

[1, 1]

2 10

4 1803.16 19

[2, 1]

3 10

5 1572.50 16

[0, 2]

1 15

6 2294.21 19

[1, 2]

2 15

7 1687.22 18

[2, 2]

3 15

8 1833.13 16

[0, 3]

1 20

9 3284.55 22

[1, 3]

2 20

10 2443.33 18

[2, 3]

3 20

11 1951.18 17

[0, 4]

1 50

12 6256.22 37

[1, 4]

2 50

13 3936.15 26

[2, 4]

3 50

14 4570.83 24

[0, 5]

1 100

15 8706.46 1196

[1, 5]

2 100

16 8764.34 212

[2, 5]

3 100

17 7196.05 43

[0, 6]

1 150

18 7738.16 201

[1, 6]

2 150

19 6411.89 37

[2, 6]

3 150

20 5662.22 27

Point Mutation Rate

Flip at least one bit?

Use shift Buffer?

nResamples

sequence length

[0, 0, 0, 0, 0]

0.0 false false 1 5

0 920.00 1

[1, 0, 0, 0, 0]

1.0 false false 1 5

1 240.00 1

[2, 0, 0, 0, 0]

2.0 false false 1 5

2 730.00 1

[3, 0, 0, 0, 0]

3.0 false false 1 5

3 340.00 1

[0, 1, 0, 0, 0]

0.0 true false 1 5

4 -20.00 1

[1, 1, 0, 0, 0]

1.0 true false 1 5

5 500.00 1

[2, 1, 0, 0, 0]

2.0 true false 1 5

6 1080.00 1

[3, 1, 0, 0, 0]

3.0 true false 1 5

7 330.00 1

[0, 0, 1, 0, 0]

0.0 false true 1 5

8 1110.00 1

[1, 0, 1, 0, 0]

1.0 false true 1 5

9 -210.00 1

[2, 0, 1, 0, 0]

2.0 false true 1 5

10 -180.00 1

[3, 0, 1, 0, 0]

3.0 false true 1 5

11 50.00 1

[0, 1, 1, 0, 0]

0.0 true true 1 5

12 70.00 1

[1, 1, 1, 0, 0]

1.0 true true 1 5

13 480.00 1

[2, 1, 1, 0, 0]

2.0 true true 1 5

14 745.00 2

[3, 1, 1, 0, 0]

3.0 true true 1 5

15 1235.00 2

[0, 0, 0, 1, 0]

0.0 false false 2 5

16 -30.00 1

[1, 0, 0, 1, 0]

1.0 false false 2 5

17 1110.00 1

[2, 0, 0, 1, 0]

2.0 false false 2 5

18 200.00 1

[3, 0, 0, 1, 0]

3.0 false false 2 5

19 -140.00 1

[0, 1, 0, 1, 0]

0.0 true false 2 5

20 710.00 1

[1, 1, 0, 1, 0]

1.0 true false 2 5

21 410.00 1

[2, 1, 0, 1, 0]

2.0 true false 2 5

22 640.00 1

[3, 1, 0, 1, 0]

3.0 true false 2 5

23 200.00 1

[0, 0, 1, 1, 0]

0.0 false true 2 5

24 -400.00 1

[1, 0, 1, 1, 0]

1.0 false true 2 5

25 200.00 1

[2, 0, 1, 1, 0]

2.0 false true 2 5

26 1040.00 1

[3, 0, 1, 1, 0]

3.0 false true 2 5

27 2550.00 1

[0, 1, 1, 1, 0]

0.0 true true 2 5

28 690.00 1

[1, 1, 1, 1, 0]

1.0 true true 2 5

29 160.00 1

[2, 1, 1, 1, 0]

2.0 true true 2 5

30 570.00 1

[3, 1, 1, 1, 0]

3.0 true true 2 5

31 940.00 1

[0, 0, 0, 2, 0]

0.0 false false 3 5

32 370.00 1

[1, 0, 0, 2, 0]

1.0 false false 3 5

33 570.00 1

[2, 0, 0, 2, 0]

2.0 false false 3 5

34 850.00 1

[3, 0, 0, 2, 0]

3.0 false false 3 5

35 800.00 1

[0, 1, 0, 2, 0]

0.0 true false 3 5

36 3580.00 1

[1, 1, 0, 2, 0]

1.0 true false 3 5

37 1290.00 1

[2, 1, 0, 2, 0]

2.0 true false 3 5

38 1140.00 1

[3, 1, 0, 2, 0]

3.0 true false 3 5

39 300.00 1

[0, 0, 1, 2, 0]

0.0 false true 3 5

40 240.00 1

[1, 0, 1, 2, 0]

1.0 false true 3 5

41 150.00 1

[2, 0, 1, 2, 0]

2.0 false true 3 5

42 240.00 1

[3, 0, 1, 2, 0]

3.0 false true 3 5

43 430.00 1

[0, 1, 1, 2, 0]

0.0 true true 3 5

44 -30.00 1

[1, 1, 1, 2, 0]

1.0 true true 3 5

45 160.00 1

[2, 1, 1, 2, 0]

2.0 true true 3 5

46 200.00 1

[3, 1, 1, 2, 0]

3.0 true true 3 5

47 480.00 1

[0, 0, 0, 0, 1]

0.0 false false 1 10

48 2060.00 1

[1, 0, 0, 0, 1]

1.0 false false 1 10

49 2830.00 1

[2, 0, 0, 0, 1]

2.0 false false 1 10

50 1260.00 1

[3, 0, 0, 0, 1]

3.0 false false 1 10

51 1310.00 1

[0, 1, 0, 0, 1]

0.0 true false 1 10

52 890.00 1

[1, 1, 0, 0, 1]

1.0 true false 1 10

53 520.00 1

[2, 1, 0, 0, 1]

2.0 true false 1 10

54 1850.00 1

[3, 1, 0, 0, 1]

3.0 true false 1 10

55 2410.00 1

[0, 0, 1, 0, 1]

0.0 false true 1 10

56 4020.00 1

[1, 0, 1, 0, 1]

1.0 false true 1 10

57 3570.00 1

[2, 0, 1, 0, 1]

2.0 false true 1 10

58 1100.00 1

[3, 0, 1, 0, 1]

3.0 false true 1 10

59 820.00 1

[0, 1, 1, 0, 1]

0.0 true true 1 10

60 2120.00 1

[1, 1, 1, 0, 1]

1.0 true true 1 10

61 2590.00 1

[2, 1, 1, 0, 1]

2.0 true true 1 10

62 505.00 2

[3, 1, 1, 0, 1]

3.0 true true 1 10

63 2480.00 2

[0, 0, 0, 1, 1]

0.0 false false 2 10

64 1660.00 1

[1, 0, 0, 1, 1]

1.0 false false 2 10

65 1950.00 1

[2, 0, 0, 1, 1]

2.0 false false 2 10

66 1900.00 1

[3, 0, 0, 1, 1]

3.0 false false 2 10

67 1640.00 1

[0, 1, 0, 1, 1]

0.0 true false 2 10

68 2000.00 1

[1, 1, 0, 1, 1]

1.0 true false 2 10

69 1990.00 1

[2, 1, 0, 1, 1]

2.0 true false 2 10

70 3570.00 1

[3, 1, 0, 1, 1]

3.0 true false 2 10

71 3280.00 2

[0, 0, 1, 1, 1]

0.0 false true 2 10

72 -280.00 1

[1, 0, 1, 1, 1]

1.0 false true 2 10

73 1480.00 1

[2, 0, 1, 1, 1]

2.0 false true 2 10

74 730.00 1

[3, 0, 1, 1, 1]

3.0 false true 2 10

75 520.00 1

[0, 1, 1, 1, 1]

0.0 true true 2 10

76 1140.00 1

[1, 1, 1, 1, 1]

1.0 true true 2 10

77 900.00 1

[2, 1, 1, 1, 1]

2.0 true true 2 10

78 2890.00 2

[3, 1, 1, 1, 1]

3.0 true true 2 10

79 1360.00 2

[0, 0, 0, 2, 1]

0.0 false false 3 10

80 100.00 1

[1, 0, 0, 2, 1]

1.0 false false 3 10

81 1120.00 1

[2, 0, 0, 2, 1]

2.0 false false 3 10

82 670.00 1

[3, 0, 0, 2, 1]

3.0 false false 3 10

83 390.00 1

[0, 1, 0, 2, 1]

0.0 true false 3 10

84 1530.00 1

[1, 1, 0, 2, 1]

1.0 true false 3 10

85 3580.00 1

[2, 1, 0, 2, 1]

2.0 true false 3 10

86 3570.00 1

[3, 1, 0, 2, 1]

3.0 true false 3 10

87 3280.00 1

[0, 0, 1, 2, 1]

0.0 false true 3 10

88 -450.00 1

[1, 0, 1, 2, 1]

1.0 false true 3 10

89 1460.00 1

[2, 0, 1, 2, 1]

2.0 false true 3 10

90 2670.00 1

[3, 0, 1, 2, 1]

3.0 false true 3 10

91 1880.00 1

[0, 1, 1, 2, 1]

0.0 true true 3 10

92 90.00 1

[1, 1, 1, 2, 1]

1.0 true true 3 10

93 2590.00 1

[2, 1, 1, 2, 1]

2.0 true true 3 10

94 340.00 1

[3, 1, 1, 2, 1]

3.0 true true 3 10

95 2340.00 1

[0, 0, 0, 0, 2]

0.0 false false 1 15

96 1120.00 1

[1, 0, 0, 0, 2]

1.0 false false 1 15

97 3770.00 1

[2, 0, 0, 0, 2]

2.0 false false 1 15

98 1300.00 1

[3, 0, 0, 0, 2]

3.0 false false 1 15

99 2630.00 1

[0, 1, 0, 0, 2]

0.0 true false 1 15

100 2810.00 1

[1, 1, 0, 0, 2]

1.0 true false 1 15

101 1130.00 1

[2, 1, 0, 0, 2]

2.0 true false 1 15

102 2740.00 2

[3, 1, 0, 0, 2]

3.0 true false 1 15

103 1390.00 1

[0, 0, 1, 0, 2]

0.0 false true 1 15

104 460.00 1

[1, 0, 1, 0, 2]

1.0 false true 1 15

105 2650.00 1

[2, 0, 1, 0, 2]

2.0 false true 1 15

106 2170.00 1

[3, 0, 1, 0, 2]

3.0 false true 1 15

107 860.00 1

[0, 1, 1, 0, 2]

0.0 true true 1 15

108 6580.00 1

[1, 1, 1, 0, 2]

1.0 true true 1 15

109 1900.00 1

[2, 1, 1, 0, 2]

2.0 true true 1 15

110 2620.00 2

[3, 1, 1, 0, 2]

3.0 true true 1 15

111 2050.00 2

[0, 0, 0, 1, 2]

0.0 false false 2 15

112 390.00 1

[1, 0, 0, 1, 2]

1.0 false false 2 15

113 1880.00 1

[2, 0, 0, 1, 2]

2.0 false false 2 15

114 1010.00 1

[3, 0, 0, 1, 2]

3.0 false false 2 15

115 1510.00 1

[0, 1, 0, 1, 2]

0.0 true false 2 15

116 2400.00 1

[1, 1, 0, 1, 2]

1.0 true false 2 15

117 1160.00 1

[2, 1, 0, 1, 2]

2.0 true false 2 15

118 1890.00 1

[3, 1, 0, 1, 2]

3.0 true false 2 15

119 1950.00 1

[0, 0, 1, 1, 2]

0.0 false true 2 15

120 -210.00 1

[1, 0, 1, 1, 2]

1.0 false true 2 15

121 3900.00 1

[2, 0, 1, 1, 2]

2.0 false true 2 15

122 990.00 1

[3, 0, 1, 1, 2]

3.0 false true 2 15

123 2780.00 1

[0, 1, 1, 1, 2]

0.0 true true 2 15

124 1590.00 1

[1, 1, 1, 1, 2]

1.0 true true 2 15

125 1970.00 1

[2, 1, 1, 1, 2]

2.0 true true 2 15

126 1315.00 2

[3, 1, 1, 1, 2]

3.0 true true 2 15

127 2265.00 2

[0, 0, 0, 2, 2]

0.0 false false 3 15

128 3470.00 1

[1, 0, 0, 2, 2]

1.0 false false 3 15

129 700.00 1

[2, 0, 0, 2, 2]

2.0 false false 3 15

130 230.00 1

[3, 0, 0, 2, 2]

3.0 false false 3 15

131 2000.00 1

[0, 1, 0, 2, 2]

0.0 true false 3 15

132 1220.00 1

[1, 1, 0, 2, 2]

1.0 true false 3 15

133 2620.00 1

[2, 1, 0, 2, 2]

2.0 true false 3 15

134 960.00 1

[3, 1, 0, 2, 2]

3.0 true false 3 15

135 720.00 1

[0, 0, 1, 2, 2]

0.0 false true 3 15

136 3320.00 1

[1, 0, 1, 2, 2]

1.0 false true 3 15

137 270.00 1

[2, 0, 1, 2, 2]

2.0 false true 3 15

138 3740.00 1

[3, 0, 1, 2, 2]

3.0 false true 3 15

139 3430.00 1

[0, 1, 1, 2, 2]

0.0 true true 3 15

140 1590.00 1

[1, 1, 1, 2, 2]

1.0 true true 3 15

141 1800.00 1

[2, 1, 1, 2, 2]

2.0 true true 3 15

142 1360.00 1

[3, 1, 1, 2, 2]

3.0 true true 3 15

143 1900.00 1

[0, 0, 0, 0, 3]

0.0 false false 1 20

144 900.00 1

[1, 0, 0, 0, 3]

1.0 false false 1 20

145 3260.00 1

[2, 0, 0, 0, 3]

2.0 false false 1 20

146 5300.00 1

[3, 0, 0, 0, 3]

3.0 false false 1 20

147 1460.00 1

[0, 1, 0, 0, 3]

0.0 true false 1 20

148 1870.00 1

[1, 1, 0, 0, 3]

1.0 true false 1 20

149 1800.00 1

[2, 1, 0, 0, 3]

2.0 true false 1 20

150 3720.00 1

[3, 1, 0, 0, 3]

3.0 true false 1 20

151 4060.00 1

[0, 0, 1, 0, 3]

0.0 false true 1 20

152 610.00 1

[1, 0, 1, 0, 3]

1.0 false true 1 20

153 1130.00 1

[2, 0, 1, 0, 3]

2.0 false true 1 20

154 3320.00 2

[3, 0, 1, 0, 3]

3.0 false true 1 20

155 3870.00 2

[0, 1, 1, 0, 3]

0.0 true true 1 20

156 3800.00 1

[1, 1, 1, 0, 3]

1.0 true true 1 20

157 6000.00 2

[2, 1, 1, 0, 3]

2.0 true true 1 20

158 3545.00 2

[3, 1, 1, 0, 3]

3.0 true true 1 20

159 3626.67 3

[0, 0, 0, 1, 3]

0.0 false false 2 20

160 920.00 1

[1, 0, 0, 1, 3]

1.0 false false 2 20

161 900.00 1

[2, 0, 0, 1, 3]

2.0 false false 2 20

162 3040.00 1

[3, 0, 0, 1, 3]

3.0 false false 2 20

163 2540.00 1

[0, 1, 0, 1, 3]

0.0 true false 2 20

164 3160.00 1

[1, 1, 0, 1, 3]

1.0 true false 2 20

165 3180.00 1

[2, 1, 0, 1, 3]

2.0 true false 2 20

166 1020.00 1

[3, 1, 0, 1, 3]

3.0 true false 2 20

167 1210.00 1

[0, 0, 1, 1, 3]

0.0 false true 2 20

168 1100.00 1

[1, 0, 1, 1, 3]

1.0 false true 2 20

169 4000.00 1

[2, 0, 1, 1, 3]

2.0 false true 2 20

170 3190.00 1

[3, 0, 1, 1, 3]

3.0 false true 2 20

171 3970.00 1

[0, 1, 1, 1, 3]

0.0 true true 2 20

172 1190.00 1

[1, 1, 1, 1, 3]

1.0 true true 2 20

173 6480.00 1

[2, 1, 1, 1, 3]

2.0 true true 2 20

174 1510.00 2

[3, 1, 1, 1, 3]

3.0 true true 2 20

175 2530.00 2

[0, 0, 0, 2, 3]

0.0 false false 3 20

176 350.00 1

[1, 0, 0, 2, 3]

1.0 false false 3 20

177 460.00 1

[2, 0, 0, 2, 3]

2.0 false false 3 20

178 2560.00 1

[3, 0, 0, 2, 3]

3.0 false false 3 20

179 1270.00 1

[0, 1, 0, 2, 3]

0.0 true false 3 20

180 770.00 1

[1, 1, 0, 2, 3]

1.0 true false 3 20

181 1350.00 1

[2, 1, 0, 2, 3]

2.0 true false 3 20

182 1060.00 1

[3, 1, 0, 2, 3]

3.0 true false 3 20

183 740.00 1

[0, 0, 1, 2, 3]

0.0 false true 3 20

184 -460.00 1

[1, 0, 1, 2, 3]

1.0 false true 3 20

185 3860.00 1

[2, 0, 1, 2, 3]

2.0 false true 3 20

186 3340.00 1

[3, 0, 1, 2, 3]

3.0 false true 3 20

187 7050.00 1

[0, 1, 1, 2, 3]

0.0 true true 3 20

188 790.00 1

[1, 1, 1, 2, 3]

1.0 true true 3 20

189 1240.00 1

[2, 1, 1, 2, 3]

2.0 true true 3 20

190 2200.00 1

[3, 1, 1, 2, 3]

3.0 true true 3 20

191 3295.00 2

[0, 0, 0, 0, 4]

0.0 false false 1 50

192 980.00 1

[1, 0, 0, 0, 4]

1.0 false false 1 50

193 110.00 1

[2, 0, 0, 0, 4]

2.0 false false 1 50

194 640.00 1

[3, 0, 0, 0, 4]

3.0 false false 1 50

195 7560.00 1

[0, 1, 0, 0, 4]

0.0 true false 1 50

196 2850.00 1

[1, 1, 0, 0, 4]

1.0 true false 1 50

197 2650.00 1

[2, 1, 0, 0, 4]

2.0 true false 1 50

198 820.00 1

[3, 1, 0, 0, 4]

3.0 true false 1 50

199 1120.00 1

[0, 0, 1, 0, 4]

0.0 false true 1 50

200 3740.00 1

[1, 0, 1, 0, 4]

1.0 false true 1 50

201 5010.00 2

[2, 0, 1, 0, 4]

2.0 false true 1 50

202 8916.67 3

[3, 0, 1, 0, 4]

3.0 false true 1 50

203 7385.00 2

[0, 1, 1, 0, 4]

0.0 true true 1 50

204 8340.00 2

[1, 1, 1, 0, 4]

1.0 true true 1 50

205 8993.33 3

[2, 1, 1, 0, 4]

2.0 true true 1 50

206 6718.57 7

[3, 1, 1, 0, 4]

3.0 true true 1 50

207 7642.22 9

[0, 0, 0, 1, 4]

0.0 false false 2 50

208 570.00 1

[1, 0, 0, 1, 4]

1.0 false false 2 50

209 700.00 1

[2, 0, 0, 1, 4]

2.0 false false 2 50

210 2410.00 1

[3, 0, 0, 1, 4]

3.0 false false 2 50

211 1380.00 1

[0, 1, 0, 1, 4]

0.0 true false 2 50

212 1390.00 2

[1, 1, 0, 1, 4]

1.0 true false 2 50

213 1610.00 1

[2, 1, 0, 1, 4]

2.0 true false 2 50

214 190.00 1

[3, 1, 0, 1, 4]

3.0 true false 2 50

215 500.00 1

[0, 0, 1, 1, 4]

0.0 false true 2 50

216 -140.00 1

[1, 0, 1, 1, 4]

1.0 false true 2 50

217 5670.00 2

[2, 0, 1, 1, 4]

2.0 false true 2 50

218 1190.00 1

[3, 0, 1, 1, 4]

3.0 false true 2 50

219 6375.00 2

[0, 1, 1, 1, 4]

0.0 true true 2 50

220 5530.00 2

[1, 1, 1, 1, 4]

1.0 true true 2 50

221 3990.00 2

[2, 1, 1, 1, 4]

2.0 true true 2 50

222 6413.33 3

[3, 1, 1, 1, 4]

3.0 true true 2 50

223 7195.00 4

[0, 0, 0, 2, 4]

0.0 false false 3 50

224 320.00 1

[1, 0, 0, 2, 4]

1.0 false false 3 50

225 1480.00 1

[2, 0, 0, 2, 4]

2.0 false false 3 50

226 1460.00 1

[3, 0, 0, 2, 4]

3.0 false false 3 50

227 740.00 1

[0, 1, 0, 2, 4]

0.0 true false 3 50

228 900.00 1

[1, 1, 0, 2, 4]

1.0 true false 3 50

229 660.00 1

[2, 1, 0, 2, 4]

2.0 true false 3 50

230 2500.00 1

[3, 1, 0, 2, 4]

3.0 true false 3 50

231 210.00 1

[0, 0, 1, 2, 4]

0.0 false true 3 50

232 490.00 2

[1, 0, 1, 2, 4]

1.0 false true 3 50

233 4190.00 1

[2, 0, 1, 2, 4]

2.0 false true 3 50

234 5950.00 2

[3, 0, 1, 2, 4]

3.0 false true 3 50

235 7350.00 2

[0, 1, 1, 2, 4]

0.0 true true 3 50

236 4400.00 1

[1, 1, 1, 2, 4]

1.0 true true 3 50

237 7905.00 2

[2, 1, 1, 2, 4]

2.0 true true 3 50

238 9193.33 3

[3, 1, 1, 2, 4]

3.0 true true 3 50

239 7290.00 3

[0, 0, 0, 0, 5]

0.0 false false 1 100

240 1810.00 1

[1, 0, 0, 0, 5]

1.0 false false 1 100

241 480.00 1

[2, 0, 0, 0, 5]

2.0 false false 1 100

242 3620.00 1

[3, 0, 0, 0, 5]

3.0 false false 1 100

243 1570.00 1

[0, 1, 0, 0, 5]

0.0 true false 1 100

244 1590.00 1

[1, 1, 0, 0, 5]

1.0 true false 1 100

245 1120.00 1

[2, 1, 0, 0, 5]

2.0 true false 1 100

246 2610.00 2

[3, 1, 0, 0, 5]

3.0 true false 1 100

247 1005.00 2

[0, 0, 1, 0, 5]

0.0 false true 1 100

248 -220.00 1

[1, 0, 1, 0, 5]

1.0 false true 1 100

249 8826.67 3

[2, 0, 1, 0, 5]

2.0 false true 1 100

250 9478.00 5

[3, 0, 1, 0, 5]

3.0 false true 1 100

251 8340.00 4

[0, 1, 1, 0, 5]

0.0 true true 1 100

252 9670.00 3

[1, 1, 1, 0, 5]

1.0 true true 1 100

253 7330.00 8

[2, 1, 1, 0, 5]

2.0 true true 1 100

254 8788.75 544

[3, 1, 1, 0, 5]

3.0 true true 1 100

255 8769.85 618

[0, 0, 0, 1, 5]

0.0 false false 2 100

256 1010.00 1

[1, 0, 0, 1, 5]

1.0 false false 2 100

257 2300.00 1

[2, 0, 0, 1, 5]

2.0 false false 2 100

258 1740.00 1

[3, 0, 0, 1, 5]

3.0 false false 2 100

259 650.00 1

[0, 1, 0, 1, 5]

0.0 true false 2 100

260 1730.00 1

[1, 1, 0, 1, 5]

1.0 true false 2 100

261 1710.00 1

[2, 1, 0, 1, 5]

2.0 true false 2 100

262 3190.00 1

[3, 1, 0, 1, 5]

3.0 true false 2 100

263 620.00 1

[0, 0, 1, 1, 5]

0.0 false true 2 100

264 -100.00 1

[1, 0, 1, 1, 5]

1.0 false true 2 100

265 8875.00 2

[2, 0, 1, 1, 5]

2.0 false true 2 100

266 9363.33 3

[3, 0, 1, 1, 5]

3.0 false true 2 100

267 7960.00 3

[0, 1, 1, 1, 5]

0.0 true true 2 100

268 8720.00 2

[1, 1, 1, 1, 5]

1.0 true true 2 100

269 8862.50 4

[2, 1, 1, 1, 5]

2.0 true true 2 100

270 9044.63 67

[3, 1, 1, 1, 5]

3.0 true true 2 100

271 9152.38 122

[0, 0, 0, 2, 5]

0.0 false false 3 100

272 1390.00 1

[1, 0, 0, 2, 5]

1.0 false false 3 100

273 1350.00 1

[2, 0, 0, 2, 5]

2.0 false false 3 100

274 340.00 1

[3, 0, 0, 2, 5]

3.0 false false 3 100

275 1730.00 1

[0, 1, 0, 2, 5]

0.0 true false 3 100

276 780.00 1

[1, 1, 0, 2, 5]

1.0 true false 3 100

277 1280.00 1

[2, 1, 0, 2, 5]

2.0 true false 3 100

278 950.00 1

[3, 1, 0, 2, 5]

3.0 true false 3 100

279 220.00 1

[0, 0, 1, 2, 5]

0.0 false true 3 100

280 270.00 1

[1, 0, 1, 2, 5]

1.0 false true 3 100

281 7435.00 2

[2, 0, 1, 2, 5]

2.0 false true 3 100

282 8600.00 2

[3, 0, 1, 2, 5]

3.0 false true 3 100

283 8746.67 3

[0, 1, 1, 2, 5]

0.0 true true 3 100

284 6265.00 2

[1, 1, 1, 2, 5]

1.0 true true 3 100

285 9280.00 4

[2, 1, 1, 2, 5]

2.0 true true 3 100

286 9201.25 8

[3, 1, 1, 2, 5]

3.0 true true 3 100

287 9196.15 13

[0, 0, 0, 0, 6]

0.0 false false 1 150

288 960.00 1

[1, 0, 0, 0, 6]

1.0 false false 1 150

289 1090.00 1

[2, 0, 0, 0, 6]

2.0 false false 1 150

290 630.00 1

[3, 0, 0, 0, 6]

3.0 false false 1 150

291 730.00 1

[0, 1, 0, 0, 6]

0.0 true false 1 150

292 510.00 1

[1, 1, 0, 0, 6]

1.0 true false 1 150

293 260.00 1

[2, 1, 0, 0, 6]

2.0 true false 1 150

294 1460.00 1

[3, 1, 0, 0, 6]

3.0 true false 1 150

295 750.00 1

[0, 0, 1, 0, 6]

0.0 false true 1 150

296 2390.00 1

[1, 0, 1, 0, 6]

1.0 false true 1 150

297 7865.00 2

[2, 0, 1, 0, 6]

2.0 false true 1 150

298 6730.00 2

[3, 0, 1, 0, 6]

3.0 false true 1 150

299 8760.00 3

[0, 1, 1, 0, 6]

0.0 true true 1 150

300 8456.67 3

[1, 1, 1, 0, 6]

1.0 true true 1 150

301 8064.00 5

[2, 1, 1, 0, 6]

2.0 true true 1 150

302 8158.27 75

[3, 1, 1, 0, 6]

3.0 true true 1 150

303 7976.08 102

[0, 0, 0, 1, 6]

0.0 false false 2 150

304 250.00 1

[1, 0, 0, 1, 6]

1.0 false false 2 150

305 2060.00 1

[2, 0, 0, 1, 6]

2.0 false false 2 150

306 1440.00 1

[3, 0, 0, 1, 6]

3.0 false false 2 150

307 1150.00 1

[0, 1, 0, 1, 6]

0.0 true false 2 150

308 470.00 1

[1, 1, 0, 1, 6]

1.0 true false 2 150

309 1190.00 1

[2, 1, 0, 1, 6]

2.0 true false 2 150

310 520.00 1

[3, 1, 0, 1, 6]

3.0 true false 2 150

311 1370.00 1

[0, 0, 1, 1, 6]

0.0 false true 2 150

312 -50.00 1

[1, 0, 1, 1, 6]

1.0 false true 2 150

313 7920.00 2

[2, 0, 1, 1, 6]

2.0 false true 2 150

314 8595.00 2

[3, 0, 1, 1, 6]

3.0 false true 2 150

315 6990.00 2

[0, 1, 1, 1, 6]

0.0 true true 2 150

316 8920.00 2

[1, 1, 1, 1, 6]

1.0 true true 2 150

317 8296.67 3

[2, 1, 1, 1, 6]

2.0 true true 2 150

318 7934.29 7

[3, 1, 1, 1, 6]

3.0 true true 2 150

319 8356.00 10

[0, 0, 0, 2, 6]

0.0 false false 3 150

320 1090.00 1

[1, 0, 0, 2, 6]

1.0 false false 3 150

321 1200.00 1

[2, 0, 0, 2, 6]

2.0 false false 3 150

322 1710.00 1

[3, 0, 0, 2, 6]

3.0 false false 3 150

323 1290.00 1

[0, 1, 0, 2, 6]

0.0 true false 3 150

324 -50.00 1

[1, 1, 0, 2, 6]

1.0 true false 3 150

325 1650.00 1

[2, 1, 0, 2, 6]

2.0 true false 3 150

326 510.00 1

[3, 1, 0, 2, 6]

3.0 true false 3 150

327 340.00 1

[0, 0, 1, 2, 6]

0.0 false true 3 150

328 1170.00 1

[1, 0, 1, 2, 6]

1.0 false true 3 150

329 8660.00 2

[2, 0, 1, 2, 6]

2.0 false true 3 150

330 1960.00 1

[3, 0, 1, 2, 6]

3.0 false true 3 150

331 8810.00 2

[0, 1, 1, 2, 6]

0.0 true true 3 150

332 2180.00 1

[1, 1, 1, 2, 6]

1.0 true true 3 150

333 8546.67 3

[2, 1, 1, 2, 6]

2.0 true true 3 150

334 8732.50 4

[3, 1, 1, 2, 6]

3.0 true true 3 150

335 8864.00 5

GridModel has 16 tuples.

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 2650.0

max = 10020.0

ave = 8796.7

sd = 1164.568724091152

se = 116.4568724091152

sum = 879670.0

sumsq = 7.8724589E9

n = 100

Checks complete: 288798 ms elapsed

Solution: [3, 1, 1, 0, 5]

Search space has 5 dimensions

Point Mutation Rate

[0]

0.0

0 2437.92 96

[1]

1.0

1 4391.64 122

[2]

2.0

2 8166.05 967

[3]

3.0

3 8263.21 1167

Flip at least one bit?

[0]

false

0 3369.32 207

[1]

true

1 8210.77 2145

Use shift Buffer?

[0]

false

0 1456.97 175

[1]

true

1 8293.33 2177

nResamples

[0]

1

0 8274.42 1762

[1]

2

1 7110.40 430

[2]

3

2 4203.56 160

sequence length

[0]

5

0 602.12 52

[1]

10

1 1749.81 53

[2]

15

2 1948.87 53

[3]

20

3 2598.28 58

[4]

50

4 5097.93 87

[5]

100

5 8712.58 1778

[6]

150

6 7369.11 271

Point Mutation Rate

Flip at least one bit?

[0, 0]

0.0 false

0 876.98 43

[1, 0]

1.0 false

1 3609.42 52

[2, 0]

2.0 false

2 4069.82 55

[3, 0]

3.0 false

3 4354.56 57

[0, 1]

0.0 true

4 3704.34 53

[1, 1]

1.0 true

5 4972.71 70

[2, 1]

2.0 true

6 8413.08 912

[3, 1]

3.0 true

7 8463.93 1110

Point Mutation Rate

Use shift Buffer?

[0, 0]

0.0 false

0 1234.65 43

[1, 0]

1.0 false

1 1473.26 43

[2, 0]

2.0 false

2 1682.00 45

[3, 0]

3.0 false

3 1428.18 44

[0, 1]

0.0 true

4 3414.15 53

[1, 1]

1.0 true

5 5980.13 79

[2, 1]

2.0 true

6 8482.52 922

[3, 1]

3.0 true

7 8531.02 1123

Point Mutation Rate

nResamples

[0, 0]

0.0 1

0 3484.55 33

[1, 0]

1.0 1

1 4826.96 46

[2, 0]

2.0 1

2 8460.40 782

[3, 0]

3.0 1

3 8464.44 901

[0, 1]

0.0 2

4 2321.52 33

[1, 1]

1.0 2

5 4251.79 39

[2, 1]

2.0 2

6 7557.76 143

[3, 1]

3.0 2

7 8066.42 215

[0, 2]

0.0 3

8 1414.67 30

[1, 2]

1.0 3

9 3997.84 37

[2, 2]

2.0 3

10 4756.67 42

[3, 2]

3.0 3

11 5537.84 51

Point Mutation Rate

sequence length

[0, 0]

0.0 5

0 600.83 12

[1, 0]

1.0 5

1 553.08 13

[2, 0]

2.0 5

2 615.38 13

[3, 0]

3.0 5

3 636.43 14

[0, 1]

0.0 10

4 1240.00 12

[1, 1]

1.0 10

5 2048.33 12

[2, 1]

2.0 10

6 1746.43 14

[3, 1]

3.0 10

7 1922.00 15

[0, 2]

0.0 15

8 2061.67 12

[1, 2]

1.0 15

9 1979.17 12

[2, 2]

2.0 15

10 1800.00 15

[3, 2]

3.0 15

11 1985.71 14

[0, 3]

0.0 20

12 1250.00 12

[1, 3]

1.0 20

13 2925.00 14

[2, 3]

2.0 20

14 2812.00 15

[3, 3]

3.0 20

15 3092.35 17

[0, 4]

0.0 50

16 2820.00 16

[1, 4]

1.0 50

17 4640.56 18

[2, 4]

2.0 50

18 5668.40 25

[3, 4]

3.0 50

19 6184.29 28

[0, 5]

0.0 100

20 4409.41 17

[1, 5]

1.0 100

21 6953.00 30

[2, 5]

2.0 100

22 8771.34 784

[3, 5]

3.0 100

23 8796.93 947

[0, 6]

0.0 150

24 3475.33 15

[1, 6]

1.0 150

25 6399.57 23

[2, 6]

2.0 150

26 7688.12 101

[3, 6]

3.0 150

27 7736.44 132

Flip at least one bit?

Use shift Buffer?

[0, 0]

false false

0 1386.94 85

[1, 0]

true false

1 1523.11 90

[0, 1]

false true

2 4750.49 122

[1, 1]

true true

3 8503.66 2055

Flip at least one bit?

nResamples

[0, 0]

false 1

0 4030.67 75

[1, 0]

true 1

1 8463.08 1687

[0, 1]

false 2

2 3082.12 66

[1, 1]

true 2

3 7840.80 364

[0, 2]

false 3

4 2905.00 66

[1, 2]

true 3

5 5115.32 94

Flip at least one bit?

sequence length

[0, 0]

false 5

0 532.40 25

[1, 0]

true 5

1 666.67 27

[0, 1]

false 10

2 1433.75 24

[1, 1]

true 10

3 2011.38 29

[0, 2]

false 15

4 1848.75 24

[1, 2]

true 15

5 2031.72 29

[0, 3]

false 20

6 2505.00 26

[1, 3]

true 20

7 2674.06 32

[0, 4]

false 50

8 3955.76 33

[1, 4]

true 50

9 5795.93 54

[0, 5]

false 100

10 6028.57 42

[1, 5]

true 100

11 8777.52 1736

[0, 6]

false 150

12 4742.12 33

[1, 6]

true 150

13 7733.36 238

Use shift Buffer?

nResamples

[0, 0]

false 1

0 1691.36 59

[1, 0]

true 1

1 8502.48 1703

[0, 1]

false 2

2 1447.12 59

[1, 1]

true 2

3 8011.02 371

[0, 2]

false 3

4 1224.56 57

[1, 2]

true 3

5 5852.14 103

Use shift Buffer?

sequence length

[0, 0]

false 5

0 730.00 25

[1, 0]

true 5

1 483.70 27

[0, 1]

false 10

2 1945.60 25

[1, 1]

true 10

3 1575.00 28

[0, 2]

false 15

4 1749.60 25

[1, 2]

true 15

5 2126.79 28

[0, 3]

false 20

6 1954.17 24

[1, 3]

true 20

7 3052.94 34

[0, 4]

false 50

8 1405.60 25

[1, 4]

true 50

9 6586.77 62

[0, 5]

false 100

10 1471.11 27

[1, 5]

true 100

11 8824.24 1751

[0, 6]

false 150

12 940.83 24

[1, 6]

true 150

13 7993.72 247

nResamples

sequence length

[0, 0]

1 5

0 522.22 18

[1, 0]

2 5

1 530.00 17

[2, 0]

3 5

2 758.82 17

[0, 1]

1 10

3 1851.11 18

[1, 1]

2 10

4 1803.16 19

[2, 1]

3 10

5 1572.50 16

[0, 2]

1 15

6 2294.21 19

[1, 2]

2 15

7 1687.22 18

[2, 2]

3 15

8 1833.13 16

[0, 3]

1 20

9 3284.55 22

[1, 3]

2 20

10 2382.63 19

[2, 3]

3 20

11 1951.18 17

[0, 4]

1 50

12 6256.22 37

[1, 4]

2 50

13 3936.15 26

[2, 4]

3 50

14 4570.83 24

[0, 5]

1 100

15 8731.76 1445

[1, 5]

2 100

16 8841.86 290

[2, 5]

3 100

17 7196.05 43

[0, 6]

1 150

18 7744.19 203

[1, 6]

2 150

19 6636.10 41

[2, 6]

3 150

20 5662.22 27

Point Mutation Rate

Flip at least one bit?

Use shift Buffer?

nResamples

sequence length

[0, 0, 0, 0, 0]

0.0 false false 1 5

0 920.00 1

[1, 0, 0, 0, 0]

1.0 false false 1 5

1 240.00 1

[2, 0, 0, 0, 0]

2.0 false false 1 5

2 730.00 1

[3, 0, 0, 0, 0]

3.0 false false 1 5

3 340.00 1

[0, 1, 0, 0, 0]

0.0 true false 1 5

4 -20.00 1

[1, 1, 0, 0, 0]

1.0 true false 1 5

5 500.00 1

[2, 1, 0, 0, 0]

2.0 true false 1 5

6 1080.00 1

[3, 1, 0, 0, 0]

3.0 true false 1 5

7 330.00 1

[0, 0, 1, 0, 0]

0.0 false true 1 5

8 1110.00 1

[1, 0, 1, 0, 0]

1.0 false true 1 5

9 -210.00 1

[2, 0, 1, 0, 0]

2.0 false true 1 5

10 -180.00 1

[3, 0, 1, 0, 0]

3.0 false true 1 5

11 50.00 1

[0, 1, 1, 0, 0]

0.0 true true 1 5

12 70.00 1

[1, 1, 1, 0, 0]

1.0 true true 1 5

13 480.00 1

[2, 1, 1, 0, 0]

2.0 true true 1 5

14 745.00 2

[3, 1, 1, 0, 0]

3.0 true true 1 5

15 1235.00 2

[0, 0, 0, 1, 0]

0.0 false false 2 5

16 -30.00 1

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17 1110.00 1

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2.0 false false 2 5

18 200.00 1

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19 -140.00 1

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21 410.00 1

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22 640.00 1

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23 200.00 1

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26 1040.00 1

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27 2550.00 1

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28 690.00 1

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29 160.00 1

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1.0 false false 1 10

49 2830.00 1

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2.0 false false 1 10

50 1260.00 1

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53 520.00 1

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54 1850.00 1

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82 670.00 1

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83 390.00 1

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84 1530.00 1

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85 3580.00 1

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93 2590.00 1

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2.0 false false 1 15

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3.0 false false 1 15

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103 1390.00 1

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104 460.00 1

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2.0 false true 1 15

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167 1210.00 1

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168 1100.00 1

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175 2530.00 2

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177 460.00 1

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179 1270.00 1

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181 1350.00 1

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182 1060.00 1

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183 740.00 1

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188 790.00 1

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189 1240.00 1

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195 7560.00 1

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196 2850.00 1

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1.0 true false 1 50

197 2650.00 1

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2.0 true false 1 50

198 820.00 1

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199 1120.00 1

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205 8993.33 3

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207 7642.22 9

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208 570.00 1

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209 700.00 1

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210 2410.00 1

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3.0 false false 2 50

211 1380.00 1

[0, 1, 0, 1, 4]

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212 1390.00 2

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213 1610.00 1

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214 190.00 1

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215 500.00 1

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216 -140.00 1

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217 5670.00 2

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218 1190.00 1

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219 6375.00 2

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228 900.00 1

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229 660.00 1

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230 2500.00 1

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231 210.00 1

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232 490.00 2

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3.0 false false 1 100

243 1570.00 1

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244 1590.00 1

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1.0 true false 1 100

245 1120.00 1

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2.0 true false 1 100

246 2610.00 2

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247 1005.00 2

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248 -220.00 1

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1.0 false true 1 100

249 8826.67 3

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250 9478.00 5

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251 8340.00 4

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255 8791.01 751

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259 650.00 1

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260 1730.00 1

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262 2250.00 2

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268 8386.67 3

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270 9089.80 98

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271 9149.46 166

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273 1350.00 1

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274 340.00 1

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275 1730.00 1

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276 780.00 1

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277 1280.00 1

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278 950.00 1

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279 220.00 1

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280 270.00 1

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290 630.00 1

[3, 0, 0, 0, 6]

3.0 false false 1 150

291 730.00 1

[0, 1, 0, 0, 6]

0.0 true false 1 150

292 510.00 1

[1, 1, 0, 0, 6]

1.0 true false 1 150

293 260.00 1

[2, 1, 0, 0, 6]

2.0 true false 1 150

294 1460.00 1

[3, 1, 0, 0, 6]

3.0 true false 1 150

295 750.00 1

[0, 0, 1, 0, 6]

0.0 false true 1 150

296 2390.00 1

[1, 0, 1, 0, 6]

1.0 false true 1 150

297 7865.00 2

[2, 0, 1, 0, 6]

2.0 false true 1 150

298 6730.00 2

[3, 0, 1, 0, 6]

3.0 false true 1 150

299 8760.00 3

[0, 1, 1, 0, 6]

0.0 true true 1 150

300 8456.67 3

[1, 1, 1, 0, 6]

1.0 true true 1 150

301 8064.00 5

[2, 1, 1, 0, 6]

2.0 true true 1 150

302 8163.95 76

[3, 1, 1, 0, 6]

3.0 true true 1 150

303 7977.38 103

[0, 0, 0, 1, 6]

0.0 false false 2 150

304 250.00 1

[1, 0, 0, 1, 6]

1.0 false false 2 150

305 2060.00 1

[2, 0, 0, 1, 6]

2.0 false false 2 150

306 1440.00 1

[3, 0, 0, 1, 6]

3.0 false false 2 150

307 1150.00 1

[0, 1, 0, 1, 6]

0.0 true false 2 150

308 470.00 1

[1, 1, 0, 1, 6]

1.0 true false 2 150

309 1190.00 1

[2, 1, 0, 1, 6]

2.0 true false 2 150

310 520.00 1

[3, 1, 0, 1, 6]

3.0 true false 2 150

311 1370.00 1

[0, 0, 1, 1, 6]

0.0 false true 2 150

312 -50.00 1

[1, 0, 1, 1, 6]

1.0 false true 2 150

313 7920.00 2

[2, 0, 1, 1, 6]

2.0 false true 2 150

314 8595.00 2

[3, 0, 1, 1, 6]

3.0 false true 2 150

315 6990.00 2

[0, 1, 1, 1, 6]

0.0 true true 2 150

316 8920.00 2

[1, 1, 1, 1, 6]

1.0 true true 2 150

317 8296.67 3

[2, 1, 1, 1, 6]

2.0 true true 2 150

318 8223.00 10

[3, 1, 1, 1, 6]

3.0 true true 2 150

319 8337.27 11

[0, 0, 0, 2, 6]

0.0 false false 3 150

320 1090.00 1

[1, 0, 0, 2, 6]

1.0 false false 3 150

321 1200.00 1

[2, 0, 0, 2, 6]

2.0 false false 3 150

322 1710.00 1

[3, 0, 0, 2, 6]

3.0 false false 3 150

323 1290.00 1

[0, 1, 0, 2, 6]

0.0 true false 3 150

324 -50.00 1

[1, 1, 0, 2, 6]

1.0 true false 3 150

325 1650.00 1

[2, 1, 0, 2, 6]

2.0 true false 3 150

326 510.00 1

[3, 1, 0, 2, 6]

3.0 true false 3 150

327 340.00 1

[0, 0, 1, 2, 6]

0.0 false true 3 150

328 1170.00 1

[1, 0, 1, 2, 6]

1.0 false true 3 150

329 8660.00 2

[2, 0, 1, 2, 6]

2.0 false true 3 150

330 1960.00 1

[3, 0, 1, 2, 6]

3.0 false true 3 150

331 8810.00 2

[0, 1, 1, 2, 6]

0.0 true true 3 150

332 2180.00 1

[1, 1, 1, 2, 6]

1.0 true true 3 150

333 8546.67 3

[2, 1, 1, 2, 6]

2.0 true true 3 150

334 8732.50 4

[3, 1, 1, 2, 6]

3.0 true true 3 150

335 8864.00 5

GridModel has 16 tuples.

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 2130.0

max = 10040.0

ave = 8863.4

sd = 1095.3199062236097

se = 109.53199062236096

sum = 886340.0

sumsq = 7.9747588E9

n = 100

Checks complete: 274668 ms elapsed

Solution: [3, 1, 1, 0, 5]

Search space has 5 dimensions

Point Mutation Rate

[0]

0.0

0 2506.70 97

[1]

1.0

1 4380.56 124

[2]

2.0

2 8207.57 1127

[3]

3.0

3 8334.72 1340

Flip at least one bit?

[0]

false

0 3369.32 207

[1]

true

1 8265.76 2481

Use shift Buffer?

[0]

false

0 1455.51 176

[1]

true

1 8339.42 2512

nResamples

[0]

1

0 8323.61 2023

[1]

2

1 7313.98 505

[2]

3

2 4203.56 160

sequence length

[0]

5

0 602.12 52

[1]

10

1 1749.81 53

[2]

15

2 1948.87 53

[3]

20

3 2598.28 58

[4]

50

4 5155.05 91

[5]

100

5 8702.41 2109

[6]

150

6 7368.60 272

Point Mutation Rate

Flip at least one bit?

[0, 0]

0.0 false

0 876.98 43

[1, 0]

1.0 false

1 3609.42 52

[2, 0]

2.0 false

2 4069.82 55

[3, 0]

3.0 false

3 4354.56 57

[0, 1]

0.0 true

4 3804.44 54

[1, 1]

1.0 true

5 4937.50 72

[2, 1]

2.0 true

6 8419.86 1072

[3, 1]

3.0 true

7 8511.54 1283

Point Mutation Rate

Use shift Buffer?

[0, 0]

0.0 false

0 1234.65 43

[1, 0]

1.0 false

1 1467.05 44

[2, 0]

2.0 false

2 1682.00 45

[3, 0]

3.0 false

3 1428.18 44

[0, 1]

0.0 true

4 3519.63 54

[1, 1]

1.0 true

5 5983.00 80

[2, 1]

2.0 true

6 8478.96 1082

[3, 1]

3.0 true

7 8569.20 1296

Point Mutation Rate

nResamples

[0, 0]

0.0 1

0 3650.00 34

[1, 0]

1.0 1

1 4780.21 48

[2, 0]

2.0 1

2 8468.24 909

[3, 0]

3.0 1

3 8515.00 1032

[0, 1]

0.0 2

4 2321.52 33

[1, 1]

1.0 2

5 4251.79 39

[2, 1]

2.0 2

6 7684.77 176

[3, 1]

3.0 2

7 8165.80 257

[0, 2]

0.0 3

8 1414.67 30

[1, 2]

1.0 3

9 3997.84 37

[2, 2]

2.0 3

10 4756.67 42

[3, 2]

3.0 3

11 5537.84 51

Point Mutation Rate

sequence length

[0, 0]

0.0 5

0 600.83 12

[1, 0]

1.0 5

1 553.08 13

[2, 0]

2.0 5

2 615.38 13

[3, 0]

3.0 5

3 636.43 14

[0, 1]

0.0 10

4 1240.00 12

[1, 1]

1.0 10

5 2048.33 12

[2, 1]

2.0 10

6 1746.43 14

[3, 1]

3.0 10

7 1922.00 15

[0, 2]

0.0 15

8 2061.67 12

[1, 2]

1.0 15

9 1979.17 12

[2, 2]

2.0 15

10 1800.00 15

[3, 2]

3.0 15

11 1985.71 14

[0, 3]

0.0 20

12 1250.00 12

[1, 3]

1.0 20

13 2925.00 14

[2, 3]

2.0 20

14 2812.00 15

[3, 3]

3.0 20

15 3092.35 17

[0, 4]

0.0 50

16 2820.00 16

[1, 4]

1.0 50

17 4547.00 20

[2, 4]

2.0 50

18 5921.85 27

[3, 4]

3.0 50

19 6184.29 28

[0, 5]

0.0 100

20 4670.56 18

[1, 5]

1.0 100

21 6953.00 30

[2, 5]

2.0 100

22 8719.11 941

[3, 5]

3.0 100

23 8800.04 1120

[0, 6]

0.0 150

24 3475.33 15

[1, 6]

1.0 150

25 6399.57 23

[2, 6]

2.0 150

26 7683.63 102

[3, 6]

3.0 150

27 7736.44 132

Flip at least one bit?

Use shift Buffer?

[0, 0]

false false

0 1386.94 85

[1, 0]

true false

1 1519.56 91

[0, 1]

false true

2 4750.49 122

[1, 1]

true true

3 8522.62 2390

Flip at least one bit?

nResamples

[0, 0]

false 1

0 4030.67 75

[1, 0]

true 1

1 8488.89 1948

[0, 1]

false 2

2 3082.12 66

[1, 1]

true 2

3 7950.21 439

[0, 2]

false 3

4 2905.00 66

[1, 2]

true 3

5 5115.32 94

Flip at least one bit?

sequence length

[0, 0]

false 5

0 532.40 25

[1, 0]

true 5

1 666.67 27

[0, 1]

false 10

2 1433.75 24

[1, 1]

true 10

3 2011.38 29

[0, 2]

false 15

4 1848.75 24

[1, 2]

true 15

5 2031.72 29

[0, 3]

false 20

6 2505.00 26

[1, 3]

true 20

7 2674.06 32

[0, 4]

false 50

8 3955.76 33

[1, 4]

true 50

9 5837.41 58

[0, 5]

false 100

10 6028.57 42

[1, 5]

true 100

11 8756.74 2067

[0, 6]

false 150

12 4742.12 33

[1, 6]

true 150

13 7731.26 239

Use shift Buffer?

nResamples

[0, 0]

false 1

0 1683.17 60

[1, 0]

true 1

1 8526.58 1963

[0, 1]

false 2

2 1447.12 59

[1, 1]

true 2

3 8090.09 446

[0, 2]

false 3

4 1224.56 57

[1, 2]

true 3

5 5852.14 103

Use shift Buffer?

sequence length

[0, 0]

false 5

0 730.00 25

[1, 0]

true 5

1 483.70 27

[0, 1]

false 10

2 1945.60 25

[1, 1]

true 10

3 1575.00 28

[0, 2]

false 15

4 1749.60 25

[1, 2]

true 15

5 2126.79 28

[0, 3]

false 20

6 1954.17 24

[1, 3]

true 20

7 3052.94 34

[0, 4]

false 50

8 1397.69 26

[1, 4]

true 50

9 6658.00 65

[0, 5]

false 100

10 1471.11 27

[1, 5]

true 100

11 8796.19 2082

[0, 6]

false 150

12 940.83 24

[1, 6]

true 150

13 7990.65 248

nResamples

sequence length

[0, 0]

1 5

0 522.22 18

[1, 0]

2 5

1 530.00 17

[2, 0]

3 5

2 758.82 17

[0, 1]

1 10

3 1851.11 18

[1, 1]

2 10

4 1803.16 19

[2, 1]

3 10

5 1572.50 16

[0, 2]

1 15

6 2294.21 19

[1, 2]

2 15

7 1687.22 18

[2, 2]

3 15

8 1833.13 16

[0, 3]

1 20

9 3284.55 22

[1, 3]

2 20

10 2382.63 19

[2, 3]

3 20

11 1951.18 17

[0, 4]

1 50

12 6179.50 40

[1, 4]

2 50

13 4156.67 27

[2, 4]

3 50

14 4570.83 24

[0, 5]

1 100

15 8726.27 1703

[1, 5]

2 100

16 8768.90 363

[2, 5]

3 100

17 7196.05 43

[0, 6]

1 150

18 7744.19 203

[1, 6]

2 150

19 6650.24 42

[2, 6]

3 150

20 5662.22 27

Point Mutation Rate

Flip at least one bit?

Use shift Buffer?

nResamples

sequence length

[0, 0, 0, 0, 0]

0.0 false false 1 5

0 920.00 1

[1, 0, 0, 0, 0]

1.0 false false 1 5

1 240.00 1

[2, 0, 0, 0, 0]

2.0 false false 1 5

2 730.00 1

[3, 0, 0, 0, 0]

3.0 false false 1 5

3 340.00 1

[0, 1, 0, 0, 0]

0.0 true false 1 5

4 -20.00 1

[1, 1, 0, 0, 0]

1.0 true false 1 5

5 500.00 1

[2, 1, 0, 0, 0]

2.0 true false 1 5

6 1080.00 1

[3, 1, 0, 0, 0]

3.0 true false 1 5

7 330.00 1

[0, 0, 1, 0, 0]

0.0 false true 1 5

8 1110.00 1

[1, 0, 1, 0, 0]

1.0 false true 1 5

9 -210.00 1

[2, 0, 1, 0, 0]

2.0 false true 1 5

10 -180.00 1

[3, 0, 1, 0, 0]

3.0 false true 1 5

11 50.00 1

[0, 1, 1, 0, 0]

0.0 true true 1 5

12 70.00 1

[1, 1, 1, 0, 0]

1.0 true true 1 5

13 480.00 1

[2, 1, 1, 0, 0]

2.0 true true 1 5

14 745.00 2

[3, 1, 1, 0, 0]

3.0 true true 1 5

15 1235.00 2

[0, 0, 0, 1, 0]

0.0 false false 2 5

16 -30.00 1

[1, 0, 0, 1, 0]

1.0 false false 2 5

17 1110.00 1

[2, 0, 0, 1, 0]

2.0 false false 2 5

18 200.00 1

[3, 0, 0, 1, 0]

3.0 false false 2 5

19 -140.00 1

[0, 1, 0, 1, 0]

0.0 true false 2 5

20 710.00 1

[1, 1, 0, 1, 0]

1.0 true false 2 5

21 410.00 1

[2, 1, 0, 1, 0]

2.0 true false 2 5

22 640.00 1

[3, 1, 0, 1, 0]

3.0 true false 2 5

23 200.00 1

[0, 0, 1, 1, 0]

0.0 false true 2 5

24 -400.00 1

[1, 0, 1, 1, 0]

1.0 false true 2 5

25 200.00 1

[2, 0, 1, 1, 0]

2.0 false true 2 5

26 1040.00 1

[3, 0, 1, 1, 0]

3.0 false true 2 5

27 2550.00 1

[0, 1, 1, 1, 0]

0.0 true true 2 5

28 690.00 1

[1, 1, 1, 1, 0]

1.0 true true 2 5

29 160.00 1

[2, 1, 1, 1, 0]

2.0 true true 2 5

30 570.00 1

[3, 1, 1, 1, 0]

3.0 true true 2 5

31 550.00 2

[0, 0, 0, 2, 0]

0.0 false false 3 5

32 370.00 1

[1, 0, 0, 2, 0]

1.0 false false 3 5

33 1350.00 2

[2, 0, 0, 2, 0]

2.0 false false 3 5

34 850.00 1

[3, 0, 0, 2, 0]

3.0 false false 3 5

35 800.00 1

[0, 1, 0, 2, 0]

0.0 true false 3 5

36 3580.00 1

[1, 1, 0, 2, 0]

1.0 true false 3 5

37 1290.00 1

[2, 1, 0, 2, 0]

2.0 true false 3 5

38 1140.00 1

[3, 1, 0, 2, 0]

3.0 true false 3 5

39 300.00 1

[0, 0, 1, 2, 0]

0.0 false true 3 5

40 240.00 1

[1, 0, 1, 2, 0]

1.0 false true 3 5

41 150.00 1

[2, 0, 1, 2, 0]

2.0 false true 3 5

42 240.00 1

[3, 0, 1, 2, 0]

3.0 false true 3 5

43 430.00 1

[0, 1, 1, 2, 0]

0.0 true true 3 5

44 -30.00 1

[1, 1, 1, 2, 0]

1.0 true true 3 5

45 160.00 1

[2, 1, 1, 2, 0]

2.0 true true 3 5

46 200.00 1

[3, 1, 1, 2, 0]

3.0 true true 3 5

47 480.00 1

[0, 0, 0, 0, 1]

0.0 false false 1 10

48 2060.00 1

[1, 0, 0, 0, 1]

1.0 false false 1 10

49 2830.00 1

[2, 0, 0, 0, 1]

2.0 false false 1 10

50 1260.00 1

[3, 0, 0, 0, 1]

3.0 false false 1 10

51 1310.00 1

[0, 1, 0, 0, 1]

0.0 true false 1 10

52 890.00 1

[1, 1, 0, 0, 1]

1.0 true false 1 10

53 520.00 1

[2, 1, 0, 0, 1]

2.0 true false 1 10

54 1850.00 1

[3, 1, 0, 0, 1]

3.0 true false 1 10

55 2410.00 1

[0, 0, 1, 0, 1]

0.0 false true 1 10

56 4020.00 1

[1, 0, 1, 0, 1]

1.0 false true 1 10

57 3570.00 1

[2, 0, 1, 0, 1]

2.0 false true 1 10

58 1100.00 1

[3, 0, 1, 0, 1]

3.0 false true 1 10

59 820.00 1

[0, 1, 1, 0, 1]

0.0 true true 1 10

60 2120.00 1

[1, 1, 1, 0, 1]

1.0 true true 1 10

61 2590.00 1

[2, 1, 1, 0, 1]

2.0 true true 1 10

62 505.00 2

[3, 1, 1, 0, 1]

3.0 true true 1 10

63 2480.00 2

[0, 0, 0, 1, 1]

0.0 false false 2 10

64 1660.00 1

[1, 0, 0, 1, 1]

1.0 false false 2 10

65 1950.00 1

[2, 0, 0, 1, 1]

2.0 false false 2 10

66 1900.00 1

[3, 0, 0, 1, 1]

3.0 false false 2 10

67 1640.00 1

[0, 1, 0, 1, 1]

0.0 true false 2 10

68 2000.00 1

[1, 1, 0, 1, 1]

1.0 true false 2 10

69 1990.00 1

[2, 1, 0, 1, 1]

2.0 true false 2 10

70 3570.00 1

[3, 1, 0, 1, 1]

3.0 true false 2 10

71 3280.00 2

[0, 0, 1, 1, 1]

0.0 false true 2 10

72 -280.00 1

[1, 0, 1, 1, 1]

1.0 false true 2 10

73 1480.00 1

[2, 0, 1, 1, 1]

2.0 false true 2 10

74 730.00 1

[3, 0, 1, 1, 1]

3.0 false true 2 10

75 520.00 1

[0, 1, 1, 1, 1]

0.0 true true 2 10

76 1140.00 1

[1, 1, 1, 1, 1]

1.0 true true 2 10

77 900.00 1

[2, 1, 1, 1, 1]

2.0 true true 2 10

78 2890.00 2

[3, 1, 1, 1, 1]

3.0 true true 2 10

79 1360.00 2

[0, 0, 0, 2, 1]

0.0 false false 3 10

80 100.00 1

[1, 0, 0, 2, 1]

1.0 false false 3 10

81 1120.00 1

[2, 0, 0, 2, 1]

2.0 false false 3 10

82 670.00 1

[3, 0, 0, 2, 1]

3.0 false false 3 10

83 390.00 1

[0, 1, 0, 2, 1]

0.0 true false 3 10

84 1530.00 1

[1, 1, 0, 2, 1]

1.0 true false 3 10

85 3580.00 1

[2, 1, 0, 2, 1]

2.0 true false 3 10

86 3570.00 1

[3, 1, 0, 2, 1]

3.0 true false 3 10

87 3280.00 1

[0, 0, 1, 2, 1]

0.0 false true 3 10

88 -450.00 1

[1, 0, 1, 2, 1]

1.0 false true 3 10

89 1460.00 1

[2, 0, 1, 2, 1]

2.0 false true 3 10

90 2670.00 1

[3, 0, 1, 2, 1]

3.0 false true 3 10

91 1880.00 1

[0, 1, 1, 2, 1]

0.0 true true 3 10

92 90.00 1

[1, 1, 1, 2, 1]

1.0 true true 3 10

93 2590.00 1

[2, 1, 1, 2, 1]

2.0 true true 3 10

94 340.00 1

[3, 1, 1, 2, 1]

3.0 true true 3 10

95 2340.00 1

[0, 0, 0, 0, 2]

0.0 false false 1 15

96 1120.00 1

[1, 0, 0, 0, 2]

1.0 false false 1 15

97 3770.00 1

[2, 0, 0, 0, 2]

2.0 false false 1 15

98 1300.00 1

[3, 0, 0, 0, 2]

3.0 false false 1 15

99 2630.00 1

[0, 1, 0, 0, 2]

0.0 true false 1 15

100 2810.00 1

[1, 1, 0, 0, 2]

1.0 true false 1 15

101 1130.00 1

[2, 1, 0, 0, 2]

2.0 true false 1 15

102 2740.00 2

[3, 1, 0, 0, 2]

3.0 true false 1 15

103 1390.00 1

[0, 0, 1, 0, 2]

0.0 false true 1 15

104 460.00 1

[1, 0, 1, 0, 2]

1.0 false true 1 15

105 2650.00 1

[2, 0, 1, 0, 2]

2.0 false true 1 15

106 2170.00 1

[3, 0, 1, 0, 2]

3.0 false true 1 15

107 860.00 1

[0, 1, 1, 0, 2]

0.0 true true 1 15

108 6580.00 1

[1, 1, 1, 0, 2]

1.0 true true 1 15

109 1900.00 1

[2, 1, 1, 0, 2]

2.0 true true 1 15

110 2620.00 2

[3, 1, 1, 0, 2]

3.0 true true 1 15

111 2050.00 2

[0, 0, 0, 1, 2]

0.0 false false 2 15

112 390.00 1

[1, 0, 0, 1, 2]

1.0 false false 2 15

113 1880.00 1

[2, 0, 0, 1, 2]

2.0 false false 2 15

114 1010.00 1

[3, 0, 0, 1, 2]

3.0 false false 2 15

115 1510.00 1

[0, 1, 0, 1, 2]

0.0 true false 2 15

116 2400.00 1

[1, 1, 0, 1, 2]

1.0 true false 2 15

117 1160.00 1

[2, 1, 0, 1, 2]

2.0 true false 2 15

118 1890.00 1

[3, 1, 0, 1, 2]

3.0 true false 2 15

119 1950.00 1

[0, 0, 1, 1, 2]

0.0 false true 2 15

120 -210.00 1

[1, 0, 1, 1, 2]

1.0 false true 2 15

121 3900.00 1

[2, 0, 1, 1, 2]

2.0 false true 2 15

122 990.00 1

[3, 0, 1, 1, 2]

3.0 false true 2 15

123 2780.00 1

[0, 1, 1, 1, 2]

0.0 true true 2 15

124 1590.00 1

[1, 1, 1, 1, 2]

1.0 true true 2 15

125 1970.00 1

[2, 1, 1, 1, 2]

2.0 true true 2 15

126 1315.00 2

[3, 1, 1, 1, 2]

3.0 true true 2 15

127 2265.00 2

[0, 0, 0, 2, 2]

0.0 false false 3 15

128 3470.00 1

[1, 0, 0, 2, 2]

1.0 false false 3 15

129 700.00 1

[2, 0, 0, 2, 2]

2.0 false false 3 15

130 230.00 1

[3, 0, 0, 2, 2]

3.0 false false 3 15

131 2000.00 1

[0, 1, 0, 2, 2]

0.0 true false 3 15

132 1220.00 1

[1, 1, 0, 2, 2]

1.0 true false 3 15

133 2620.00 1

[2, 1, 0, 2, 2]

2.0 true false 3 15

134 960.00 1

[3, 1, 0, 2, 2]

3.0 true false 3 15

135 720.00 1

[0, 0, 1, 2, 2]

0.0 false true 3 15

136 3320.00 1

[1, 0, 1, 2, 2]

1.0 false true 3 15

137 270.00 1

[2, 0, 1, 2, 2]

2.0 false true 3 15

138 3740.00 1

[3, 0, 1, 2, 2]

3.0 false true 3 15

139 3430.00 1

[0, 1, 1, 2, 2]

0.0 true true 3 15

140 1590.00 1

[1, 1, 1, 2, 2]

1.0 true true 3 15

141 1800.00 1

[2, 1, 1, 2, 2]

2.0 true true 3 15

142 1360.00 1

[3, 1, 1, 2, 2]

3.0 true true 3 15

143 1900.00 1

[0, 0, 0, 0, 3]

0.0 false false 1 20

144 900.00 1

[1, 0, 0, 0, 3]

1.0 false false 1 20

145 3260.00 1

[2, 0, 0, 0, 3]

2.0 false false 1 20

146 5300.00 1

[3, 0, 0, 0, 3]

3.0 false false 1 20

147 1460.00 1

[0, 1, 0, 0, 3]

0.0 true false 1 20

148 1870.00 1

[1, 1, 0, 0, 3]

1.0 true false 1 20

149 1800.00 1

[2, 1, 0, 0, 3]

2.0 true false 1 20

150 3720.00 1

[3, 1, 0, 0, 3]

3.0 true false 1 20

151 4060.00 1

[0, 0, 1, 0, 3]

0.0 false true 1 20

152 610.00 1

[1, 0, 1, 0, 3]

1.0 false true 1 20

153 1130.00 1

[2, 0, 1, 0, 3]

2.0 false true 1 20

154 3320.00 2

[3, 0, 1, 0, 3]

3.0 false true 1 20

155 3870.00 2

[0, 1, 1, 0, 3]

0.0 true true 1 20

156 3800.00 1

[1, 1, 1, 0, 3]

1.0 true true 1 20

157 6000.00 2

[2, 1, 1, 0, 3]

2.0 true true 1 20

158 3545.00 2

[3, 1, 1, 0, 3]

3.0 true true 1 20

159 3626.67 3

[0, 0, 0, 1, 3]

0.0 false false 2 20

160 920.00 1

[1, 0, 0, 1, 3]

1.0 false false 2 20

161 900.00 1

[2, 0, 0, 1, 3]

2.0 false false 2 20

162 3040.00 1

[3, 0, 0, 1, 3]

3.0 false false 2 20

163 2540.00 1

[0, 1, 0, 1, 3]

0.0 true false 2 20

164 3160.00 1

[1, 1, 0, 1, 3]

1.0 true false 2 20

165 3180.00 1

[2, 1, 0, 1, 3]

2.0 true false 2 20

166 1020.00 1

[3, 1, 0, 1, 3]

3.0 true false 2 20

167 1210.00 1

[0, 0, 1, 1, 3]

0.0 false true 2 20

168 1100.00 1

[1, 0, 1, 1, 3]

1.0 false true 2 20

169 4000.00 1

[2, 0, 1, 1, 3]

2.0 false true 2 20

170 3190.00 1

[3, 0, 1, 1, 3]

3.0 false true 2 20

171 3970.00 1

[0, 1, 1, 1, 3]

0.0 true true 2 20

172 1190.00 1

[1, 1, 1, 1, 3]

1.0 true true 2 20

173 3885.00 2

[2, 1, 1, 1, 3]

2.0 true true 2 20

174 1510.00 2

[3, 1, 1, 1, 3]

3.0 true true 2 20

175 2530.00 2

[0, 0, 0, 2, 3]

0.0 false false 3 20

176 350.00 1

[1, 0, 0, 2, 3]

1.0 false false 3 20

177 460.00 1

[2, 0, 0, 2, 3]

2.0 false false 3 20

178 2560.00 1

[3, 0, 0, 2, 3]

3.0 false false 3 20

179 1270.00 1

[0, 1, 0, 2, 3]

0.0 true false 3 20

180 770.00 1

[1, 1, 0, 2, 3]

1.0 true false 3 20

181 1350.00 1

[2, 1, 0, 2, 3]

2.0 true false 3 20

182 1060.00 1

[3, 1, 0, 2, 3]

3.0 true false 3 20

183 740.00 1

[0, 0, 1, 2, 3]

0.0 false true 3 20

184 -460.00 1

[1, 0, 1, 2, 3]

1.0 false true 3 20

185 3860.00 1

[2, 0, 1, 2, 3]

2.0 false true 3 20

186 3340.00 1

[3, 0, 1, 2, 3]

3.0 false true 3 20

187 7050.00 1

[0, 1, 1, 2, 3]

0.0 true true 3 20

188 790.00 1

[1, 1, 1, 2, 3]

1.0 true true 3 20

189 1240.00 1

[2, 1, 1, 2, 3]

2.0 true true 3 20

190 2200.00 1

[3, 1, 1, 2, 3]

3.0 true true 3 20

191 3295.00 2

[0, 0, 0, 0, 4]

0.0 false false 1 50

192 980.00 1

[1, 0, 0, 0, 4]

1.0 false false 1 50

193 110.00 1

[2, 0, 0, 0, 4]

2.0 false false 1 50

194 640.00 1

[3, 0, 0, 0, 4]

3.0 false false 1 50

195 7560.00 1

[0, 1, 0, 0, 4]

0.0 true false 1 50

196 2850.00 1

[1, 1, 0, 0, 4]

1.0 true false 1 50

197 1925.00 2

[2, 1, 0, 0, 4]

2.0 true false 1 50

198 820.00 1

[3, 1, 0, 0, 4]

3.0 true false 1 50

199 1120.00 1

[0, 0, 1, 0, 4]

0.0 false true 1 50

200 3740.00 1

[1, 0, 1, 0, 4]

1.0 false true 1 50

201 5010.00 2

[2, 0, 1, 0, 4]

2.0 false true 1 50

202 8916.67 3

[3, 0, 1, 0, 4]

3.0 false true 1 50

203 7385.00 2

[0, 1, 1, 0, 4]

0.0 true true 1 50

204 8340.00 2

[1, 1, 1, 0, 4]

1.0 true true 1 50

205 8297.50 4

[2, 1, 1, 0, 4]

2.0 true true 1 50

206 6915.00 8

[3, 1, 1, 0, 4]

3.0 true true 1 50

207 7642.22 9

[0, 0, 0, 1, 4]

0.0 false false 2 50

208 570.00 1

[1, 0, 0, 1, 4]

1.0 false false 2 50

209 700.00 1

[2, 0, 0, 1, 4]

2.0 false false 2 50

210 2410.00 1

[3, 0, 0, 1, 4]

3.0 false false 2 50

211 1380.00 1

[0, 1, 0, 1, 4]

0.0 true false 2 50

212 1390.00 2

[1, 1, 0, 1, 4]

1.0 true false 2 50

213 1610.00 1

[2, 1, 0, 1, 4]

2.0 true false 2 50

214 190.00 1

[3, 1, 0, 1, 4]

3.0 true false 2 50

215 500.00 1

[0, 0, 1, 1, 4]

0.0 false true 2 50

216 -140.00 1

[1, 0, 1, 1, 4]

1.0 false true 2 50

217 5670.00 2

[2, 0, 1, 1, 4]

2.0 false true 2 50

218 1190.00 1

[3, 0, 1, 1, 4]

3.0 false true 2 50

219 6375.00 2

[0, 1, 1, 1, 4]

0.0 true true 2 50

220 5530.00 2

[1, 1, 1, 1, 4]

1.0 true true 2 50

221 3990.00 2

[2, 1, 1, 1, 4]

2.0 true true 2 50

222 7282.50 4

[3, 1, 1, 1, 4]

3.0 true true 2 50

223 7195.00 4

[0, 0, 0, 2, 4]

0.0 false false 3 50

224 320.00 1

[1, 0, 0, 2, 4]

1.0 false false 3 50

225 1480.00 1

[2, 0, 0, 2, 4]

2.0 false false 3 50

226 1460.00 1

[3, 0, 0, 2, 4]

3.0 false false 3 50

227 740.00 1

[0, 1, 0, 2, 4]

0.0 true false 3 50

228 900.00 1

[1, 1, 0, 2, 4]

1.0 true false 3 50

229 660.00 1

[2, 1, 0, 2, 4]

2.0 true false 3 50

230 2500.00 1

[3, 1, 0, 2, 4]

3.0 true false 3 50

231 210.00 1

[0, 0, 1, 2, 4]

0.0 false true 3 50

232 490.00 2

[1, 0, 1, 2, 4]

1.0 false true 3 50

233 4190.00 1

[2, 0, 1, 2, 4]

2.0 false true 3 50

234 5950.00 2

[3, 0, 1, 2, 4]

3.0 false true 3 50

235 7350.00 2

[0, 1, 1, 2, 4]

0.0 true true 3 50

236 4400.00 1

[1, 1, 1, 2, 4]

1.0 true true 3 50

237 7905.00 2

[2, 1, 1, 2, 4]

2.0 true true 3 50

238 9193.33 3

[3, 1, 1, 2, 4]

3.0 true true 3 50

239 7290.00 3

[0, 0, 0, 0, 5]

0.0 false false 1 100

240 1810.00 1

[1, 0, 0, 0, 5]

1.0 false false 1 100

241 480.00 1

[2, 0, 0, 0, 5]

2.0 false false 1 100

242 3620.00 1

[3, 0, 0, 0, 5]

3.0 false false 1 100

243 1570.00 1

[0, 1, 0, 0, 5]

0.0 true false 1 100

244 1590.00 1

[1, 1, 0, 0, 5]

1.0 true false 1 100

245 1120.00 1

[2, 1, 0, 0, 5]

2.0 true false 1 100

246 2610.00 2

[3, 1, 0, 0, 5]

3.0 true false 1 100

247 1005.00 2

[0, 0, 1, 0, 5]

0.0 false true 1 100

248 -220.00 1

[1, 0, 1, 0, 5]

1.0 false true 1 100

249 8826.67 3

[2, 0, 1, 0, 5]

2.0 false true 1 100

250 9478.00 5

[3, 0, 1, 0, 5]

3.0 false true 1 100

251 8340.00 4

[0, 1, 1, 0, 5]

0.0 true true 1 100

252 9530.00 4

[1, 1, 1, 0, 5]

1.0 true true 1 100

253 7330.00 8

[2, 1, 1, 0, 5]

2.0 true true 1 100

254 8748.83 786

[3, 1, 1, 0, 5]

3.0 true true 1 100

255 8801.67 882

[0, 0, 0, 1, 5]

0.0 false false 2 100

256 1010.00 1

[1, 0, 0, 1, 5]

1.0 false false 2 100

257 2300.00 1

[2, 0, 0, 1, 5]

2.0 false false 2 100

258 1740.00 1

[3, 0, 0, 1, 5]

3.0 false false 2 100

259 650.00 1

[0, 1, 0, 1, 5]

0.0 true false 2 100

260 1730.00 1

[1, 1, 0, 1, 5]

1.0 true false 2 100

261 1710.00 1

[2, 1, 0, 1, 5]

2.0 true false 2 100

262 2250.00 2

[3, 1, 0, 1, 5]

3.0 true false 2 100

263 620.00 1

[0, 0, 1, 1, 5]

0.0 false true 2 100

264 -100.00 1

[1, 0, 1, 1, 5]

1.0 false true 2 100

265 8875.00 2

[2, 0, 1, 1, 5]

2.0 false true 2 100

266 9363.33 3

[3, 0, 1, 1, 5]

3.0 false true 2 100

267 7960.00 3

[0, 1, 1, 1, 5]

0.0 true true 2 100

268 8386.67 3

[1, 1, 1, 1, 5]

1.0 true true 2 100

269 9098.00 5

[2, 1, 1, 1, 5]

2.0 true true 2 100

270 8879.38 129

[3, 1, 1, 1, 5]

3.0 true true 2 100

271 9053.56 208

[0, 0, 0, 2, 5]

0.0 false false 3 100

272 1390.00 1

[1, 0, 0, 2, 5]

1.0 false false 3 100

273 1350.00 1

[2, 0, 0, 2, 5]

2.0 false false 3 100

274 340.00 1

[3, 0, 0, 2, 5]

3.0 false false 3 100

275 1730.00 1

[0, 1, 0, 2, 5]

0.0 true false 3 100

276 780.00 1

[1, 1, 0, 2, 5]

1.0 true false 3 100

277 1280.00 1

[2, 1, 0, 2, 5]

2.0 true false 3 100

278 950.00 1

[3, 1, 0, 2, 5]

3.0 true false 3 100

279 220.00 1

[0, 0, 1, 2, 5]

0.0 false true 3 100

280 270.00 1

[1, 0, 1, 2, 5]

1.0 false true 3 100

281 7435.00 2

[2, 0, 1, 2, 5]

2.0 false true 3 100

282 8600.00 2

[3, 0, 1, 2, 5]

3.0 false true 3 100

283 8746.67 3

[0, 1, 1, 2, 5]

0.0 true true 3 100

284 6265.00 2

[1, 1, 1, 2, 5]

1.0 true true 3 100

285 9280.00 4

[2, 1, 1, 2, 5]

2.0 true true 3 100

286 9201.25 8

[3, 1, 1, 2, 5]

3.0 true true 3 100

287 9196.15 13

[0, 0, 0, 0, 6]

0.0 false false 1 150

288 960.00 1

[1, 0, 0, 0, 6]

1.0 false false 1 150

289 1090.00 1

[2, 0, 0, 0, 6]

2.0 false false 1 150

290 630.00 1

[3, 0, 0, 0, 6]

3.0 false false 1 150

291 730.00 1

[0, 1, 0, 0, 6]

0.0 true false 1 150

292 510.00 1

[1, 1, 0, 0, 6]

1.0 true false 1 150

293 260.00 1

[2, 1, 0, 0, 6]

2.0 true false 1 150

294 1460.00 1

[3, 1, 0, 0, 6]

3.0 true false 1 150

295 750.00 1

[0, 0, 1, 0, 6]

0.0 false true 1 150

296 2390.00 1

[1, 0, 1, 0, 6]

1.0 false true 1 150

297 7865.00 2

[2, 0, 1, 0, 6]

2.0 false true 1 150

298 6730.00 2

[3, 0, 1, 0, 6]

3.0 false true 1 150

299 8760.00 3

[0, 1, 1, 0, 6]

0.0 true true 1 150

300 8456.67 3

[1, 1, 1, 0, 6]

1.0 true true 1 150

301 8064.00 5

[2, 1, 1, 0, 6]

2.0 true true 1 150

302 8163.95 76

[3, 1, 1, 0, 6]

3.0 true true 1 150

303 7977.38 103

[0, 0, 0, 1, 6]

0.0 false false 2 150

304 250.00 1

[1, 0, 0, 1, 6]

1.0 false false 2 150

305 2060.00 1

[2, 0, 0, 1, 6]

2.0 false false 2 150

306 1440.00 1

[3, 0, 0, 1, 6]

3.0 false false 2 150

307 1150.00 1

[0, 1, 0, 1, 6]

0.0 true false 2 150

308 470.00 1

[1, 1, 0, 1, 6]

1.0 true false 2 150

309 1190.00 1

[2, 1, 0, 1, 6]

2.0 true false 2 150

310 520.00 1

[3, 1, 0, 1, 6]

3.0 true false 2 150

311 1370.00 1

[0, 0, 1, 1, 6]

0.0 false true 2 150

312 -50.00 1

[1, 0, 1, 1, 6]

1.0 false true 2 150

313 7920.00 2

[2, 0, 1, 1, 6]

2.0 false true 2 150

314 8595.00 2

[3, 0, 1, 1, 6]

3.0 false true 2 150

315 6990.00 2

[0, 1, 1, 1, 6]

0.0 true true 2 150

316 8920.00 2

[1, 1, 1, 1, 6]

1.0 true true 2 150

317 8296.67 3

[2, 1, 1, 1, 6]

2.0 true true 2 150

318 8132.73 11

[3, 1, 1, 1, 6]

3.0 true true 2 150

319 8337.27 11

[0, 0, 0, 2, 6]

0.0 false false 3 150

320 1090.00 1

[1, 0, 0, 2, 6]

1.0 false false 3 150

321 1200.00 1

[2, 0, 0, 2, 6]

2.0 false false 3 150

322 1710.00 1

[3, 0, 0, 2, 6]

3.0 false false 3 150

323 1290.00 1

[0, 1, 0, 2, 6]

0.0 true false 3 150

324 -50.00 1

[1, 1, 0, 2, 6]

1.0 true false 3 150

325 1650.00 1

[2, 1, 0, 2, 6]

2.0 true false 3 150

326 510.00 1

[3, 1, 0, 2, 6]

3.0 true false 3 150

327 340.00 1

[0, 0, 1, 2, 6]

0.0 false true 3 150

328 1170.00 1

[1, 0, 1, 2, 6]

1.0 false true 3 150

329 8660.00 2

[2, 0, 1, 2, 6]

2.0 false true 3 150

330 1960.00 1

[3, 0, 1, 2, 6]

3.0 false true 3 150

331 8810.00 2

[0, 1, 1, 2, 6]

0.0 true true 3 150

332 2180.00 1

[1, 1, 1, 2, 6]

1.0 true true 3 150

333 8546.67 3

[2, 1, 1, 2, 6]

2.0 true true 3 150

334 8732.50 4

[3, 1, 1, 2, 6]

3.0 true true 3 150

335 8864.00 5

GridModel has 16 tuples.

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 890.0

max = 10050.0

ave = 8684.6

sd = 1818.5533266913571

se = 181.85533266913572

sum = 868460.0

sumsq = 7.8696342E9

n = 100

Checks complete: 254210 ms elapsed

Solution: [3, 1, 1, 0, 5]

Search space has 5 dimensions

Point Mutation Rate

[0]

0.0

0 2498.98 98

[1]

1.0

1 4421.92 125

[2]

2.0

2 8252.58 1269

[3]

3.0

3 8418.45 1532

Flip at least one bit?

[0]

false

0 3394.52 208

[1]

true

1 8331.38 2816

Use shift Buffer?

[0]

false

0 1457.18 177

[1]

true

1 8398.07 2847

nResamples

[0]

1

0 8374.78 2291

[1]

2

1 7518.41 573

[2]

3

2 4203.56 160

sequence length

[0]

5

0 602.12 52

[1]

10

1 1749.81 53

[2]

15

2 1948.87 53

[3]

20

3 2598.28 58

[4]

50

4 5192.61 92

[5]

100

5 8719.61 2439

[6]

150

6 7380.32 277

Point Mutation Rate

Flip at least one bit?

[0, 0]

0.0 false

0 876.98 43

[1, 0]

1.0 false

1 3609.42 52

[2, 0]

2.0 false

2 4150.89 56

[3, 0]

3.0 false

3 4354.56 57

[0, 1]

0.0 true

4 3767.09 55

[1, 1]

1.0 true

5 5000.68 73

[2, 1]

2.0 true

6 8441.94 1213

[3, 1]

3.0 true

7 8575.50 1475

Point Mutation Rate

Use shift Buffer?

[0, 0]

0.0 false

0 1246.36 44

[1, 0]

1.0 false

1 1467.05 44

[2, 0]

2.0 false

2 1682.00 45

[3, 0]

3.0 false

3 1428.18 44

[0, 1]

0.0 true

4 3519.63 54

[1, 1]

1.0 true

5 6027.04 81

[2, 1]

2.0 true

6 8494.14 1224

[3, 1]

3.0 true

7 8625.15 1488

Point Mutation Rate

nResamples

[0, 0]

0.0 1

0 3595.71 35

[1, 0]

1.0 1

1 4780.21 48

[2, 0]

2.0 1

2 8482.24 1031

[3, 0]

3.0 1

3 8569.35 1177

[0, 1]

0.0 2

4 2321.52 33

[1, 1]

1.0 2

5 4384.25 40

[2, 1]

2.0 2

6 7793.62 196

[3, 1]

3.0 2

7 8317.50 304

[0, 2]

0.0 3

8 1414.67 30

[1, 2]

1.0 3

9 3997.84 37

[2, 2]

2.0 3

10 4756.67 42

[3, 2]

3.0 3

11 5537.84 51

Point Mutation Rate

sequence length

[0, 0]

0.0 5

0 600.83 12

[1, 0]

1.0 5

1 553.08 13

[2, 0]

2.0 5

2 615.38 13

[3, 0]

3.0 5

3 636.43 14

[0, 1]

0.0 10

4 1240.00 12

[1, 1]

1.0 10

5 2048.33 12

[2, 1]

2.0 10

6 1746.43 14

[3, 1]

3.0 10

7 1922.00 15

[0, 2]

0.0 15

8 2061.67 12

[1, 2]

1.0 15

9 1979.17 12

[2, 2]

2.0 15

10 1800.00 15

[3, 2]

3.0 15

11 1985.71 14

[0, 3]

0.0 20

12 1250.00 12

[1, 3]

1.0 20

13 2925.00 14

[2, 3]

2.0 20

14 2812.00 15

[3, 3]

3.0 20

15 3092.35 17

[0, 4]

0.0 50

16 2820.00 16

[1, 4]

1.0 50

17 4547.00 20

[2, 4]

2.0 50

18 6017.86 28

[3, 4]

3.0 50

19 6184.29 28

[0, 5]

0.0 100

20 4516.84 19

[1, 5]

1.0 100

21 7036.77 31

[2, 5]

2.0 100

22 8706.97 1080

[3, 5]

3.0 100

23 8830.89 1309

[0, 6]

0.0 150

24 3475.33 15

[1, 6]

1.0 150

25 6399.57 23

[2, 6]

2.0 150

26 7681.35 104

[3, 6]

3.0 150

27 7749.41 135

Flip at least one bit?

Use shift Buffer?

[0, 0]

false false

0 1386.94 85

[1, 0]

true false

1 1522.07 92

[0, 1]

false true

2 4781.87 123

[1, 1]

true true

3 8561.36 2724

Flip at least one bit?

nResamples

[0, 0]

false 1

0 4030.67 75

[1, 0]

true 1

1 8521.80 2216

[0, 1]

false 2

2 3164.63 67

[1, 1]

true 2

3 8094.90 506

[0, 2]

false 3

4 2905.00 66

[1, 2]

true 3

5 5115.32 94

Flip at least one bit?

sequence length

[0, 0]

false 5

0 532.40 25

[1, 0]

true 5

1 666.67 27

[0, 1]

false 10

2 1433.75 24

[1, 1]

true 10

3 2011.38 29

[0, 2]

false 15

4 1848.75 24

[1, 2]

true 15

5 2031.72 29

[0, 3]

false 20

6 2505.00 26

[1, 3]

true 20

7 2674.06 32

[0, 4]

false 50

8 4092.65 34

[1, 4]

true 50

9 5837.41 58

[0, 5]

false 100

10 6028.57 42

[1, 5]

true 100

11 8766.76 2397

[0, 6]

false 150

12 4742.12 33

[1, 6]

true 150

13 7737.13 244

Use shift Buffer?

nResamples

[0, 0]

false 1

0 1684.26 61

[1, 0]

true 1

1 8557.79 2230

[0, 1]

false 2

2 1447.12 59

[1, 1]

true 2

3 8215.31 514

[0, 2]

false 3

4 1224.56 57

[1, 2]

true 3

5 5852.14 103

Use shift Buffer?

sequence length

[0, 0]

false 5

0 730.00 25

[1, 0]

true 5

1 483.70 27

[0, 1]

false 10

2 1945.60 25

[1, 1]

true 10

3 1575.00 28

[0, 2]

false 15

4 1749.60 25

[1, 2]

true 15

5 2126.79 28

[0, 3]

false 20

6 1954.17 24

[1, 3]

true 20

7 3052.94 34

[0, 4]

false 50

8 1397.69 26

[1, 4]

true 50

9 6687.58 66

[0, 5]

false 100

10 1481.07 28

[1, 5]

true 100

11 8803.67 2411

[0, 6]

false 150

12 940.83 24

[1, 6]

true 150

13 7991.19 253

nResamples

sequence length

[0, 0]

1 5

0 522.22 18

[1, 0]

2 5

1 530.00 17

[2, 0]

3 5

2 758.82 17

[0, 1]

1 10

3 1851.11 18

[1, 1]

2 10

4 1803.16 19

[2, 1]

3 10

5 1572.50 16

[0, 2]

1 15

6 2294.21 19

[1, 2]

2 15

7 1687.22 18

[2, 2]

3 15

8 1833.13 16

[0, 3]

1 20

9 3284.55 22

[1, 3]

2 20

10 2382.63 19

[2, 3]

3 20

11 1951.18 17

[0, 4]

1 50

12 6179.50 40

[1, 4]

2 50

13 4315.71 28

[2, 4]

3 50

14 4570.83 24

[0, 5]

1 100

15 8732.30 1967

[1, 5]

2 100

16 8814.13 429

[2, 5]

3 100

17 7196.05 43

[0, 6]

1 150

18 7750.87 207

[1, 6]

2 150

19 6675.35 43

[2, 6]

3 150

20 5662.22 27

Point Mutation Rate

Flip at least one bit?

Use shift Buffer?

nResamples

sequence length

[0, 0, 0, 0, 0]

0.0 false false 1 5

0 920.00 1

[1, 0, 0, 0, 0]

1.0 false false 1 5

1 240.00 1

[2, 0, 0, 0, 0]

2.0 false false 1 5

2 730.00 1

[3, 0, 0, 0, 0]

3.0 false false 1 5

3 340.00 1

[0, 1, 0, 0, 0]

0.0 true false 1 5

4 -20.00 1

[1, 1, 0, 0, 0]

1.0 true false 1 5

5 500.00 1

[2, 1, 0, 0, 0]

2.0 true false 1 5

6 1080.00 1

[3, 1, 0, 0, 0]

3.0 true false 1 5

7 330.00 1

[0, 0, 1, 0, 0]

0.0 false true 1 5

8 1110.00 1

[1, 0, 1, 0, 0]

1.0 false true 1 5

9 -210.00 1

[2, 0, 1, 0, 0]

2.0 false true 1 5

10 -180.00 1

[3, 0, 1, 0, 0]

3.0 false true 1 5

11 50.00 1

[0, 1, 1, 0, 0]

0.0 true true 1 5

12 70.00 1

[1, 1, 1, 0, 0]

1.0 true true 1 5

13 480.00 1

[2, 1, 1, 0, 0]

2.0 true true 1 5

14 745.00 2

[3, 1, 1, 0, 0]

3.0 true true 1 5

15 1235.00 2

[0, 0, 0, 1, 0]

0.0 false false 2 5

16 -30.00 1

[1, 0, 0, 1, 0]

1.0 false false 2 5

17 1110.00 1

[2, 0, 0, 1, 0]

2.0 false false 2 5

18 200.00 1

[3, 0, 0, 1, 0]

3.0 false false 2 5

19 -140.00 1

[0, 1, 0, 1, 0]

0.0 true false 2 5

20 710.00 1

[1, 1, 0, 1, 0]

1.0 true false 2 5

21 410.00 1

[2, 1, 0, 1, 0]

2.0 true false 2 5

22 640.00 1

[3, 1, 0, 1, 0]

3.0 true false 2 5

23 200.00 1

[0, 0, 1, 1, 0]

0.0 false true 2 5

24 -400.00 1

[1, 0, 1, 1, 0]

1.0 false true 2 5

25 200.00 1

[2, 0, 1, 1, 0]

2.0 false true 2 5

26 1040.00 1

[3, 0, 1, 1, 0]

3.0 false true 2 5

27 2550.00 1

[0, 1, 1, 1, 0]

0.0 true true 2 5

28 690.00 1

[1, 1, 1, 1, 0]

1.0 true true 2 5

29 160.00 1

[2, 1, 1, 1, 0]

2.0 true true 2 5

30 570.00 1

[3, 1, 1, 1, 0]

3.0 true true 2 5

31 550.00 2

[0, 0, 0, 2, 0]

0.0 false false 3 5

32 370.00 1

[1, 0, 0, 2, 0]

1.0 false false 3 5

33 1350.00 2

[2, 0, 0, 2, 0]

2.0 false false 3 5

34 850.00 1

[3, 0, 0, 2, 0]

3.0 false false 3 5

35 800.00 1

[0, 1, 0, 2, 0]

0.0 true false 3 5

36 3580.00 1

[1, 1, 0, 2, 0]

1.0 true false 3 5

37 1290.00 1

[2, 1, 0, 2, 0]

2.0 true false 3 5

38 1140.00 1

[3, 1, 0, 2, 0]

3.0 true false 3 5

39 300.00 1

[0, 0, 1, 2, 0]

0.0 false true 3 5

40 240.00 1

[1, 0, 1, 2, 0]

1.0 false true 3 5

41 150.00 1

[2, 0, 1, 2, 0]

2.0 false true 3 5

42 240.00 1

[3, 0, 1, 2, 0]

3.0 false true 3 5

43 430.00 1

[0, 1, 1, 2, 0]

0.0 true true 3 5

44 -30.00 1

[1, 1, 1, 2, 0]

1.0 true true 3 5

45 160.00 1

[2, 1, 1, 2, 0]

2.0 true true 3 5

46 200.00 1

[3, 1, 1, 2, 0]

3.0 true true 3 5

47 480.00 1

[0, 0, 0, 0, 1]

0.0 false false 1 10

48 2060.00 1

[1, 0, 0, 0, 1]

1.0 false false 1 10

49 2830.00 1

[2, 0, 0, 0, 1]

2.0 false false 1 10

50 1260.00 1

[3, 0, 0, 0, 1]

3.0 false false 1 10

51 1310.00 1

[0, 1, 0, 0, 1]

0.0 true false 1 10

52 890.00 1

[1, 1, 0, 0, 1]

1.0 true false 1 10

53 520.00 1

[2, 1, 0, 0, 1]

2.0 true false 1 10

54 1850.00 1

[3, 1, 0, 0, 1]

3.0 true false 1 10

55 2410.00 1

[0, 0, 1, 0, 1]

0.0 false true 1 10

56 4020.00 1

[1, 0, 1, 0, 1]

1.0 false true 1 10

57 3570.00 1

[2, 0, 1, 0, 1]

2.0 false true 1 10

58 1100.00 1

[3, 0, 1, 0, 1]

3.0 false true 1 10

59 820.00 1

[0, 1, 1, 0, 1]

0.0 true true 1 10

60 2120.00 1

[1, 1, 1, 0, 1]

1.0 true true 1 10

61 2590.00 1

[2, 1, 1, 0, 1]

2.0 true true 1 10

62 505.00 2

[3, 1, 1, 0, 1]

3.0 true true 1 10

63 2480.00 2

[0, 0, 0, 1, 1]

0.0 false false 2 10

64 1660.00 1

[1, 0, 0, 1, 1]

1.0 false false 2 10

65 1950.00 1

[2, 0, 0, 1, 1]

2.0 false false 2 10

66 1900.00 1

[3, 0, 0, 1, 1]

3.0 false false 2 10

67 1640.00 1

[0, 1, 0, 1, 1]

0.0 true false 2 10

68 2000.00 1

[1, 1, 0, 1, 1]

1.0 true false 2 10

69 1990.00 1

[2, 1, 0, 1, 1]

2.0 true false 2 10

70 3570.00 1

[3, 1, 0, 1, 1]

3.0 true false 2 10

71 3280.00 2

[0, 0, 1, 1, 1]

0.0 false true 2 10

72 -280.00 1

[1, 0, 1, 1, 1]

1.0 false true 2 10

73 1480.00 1

[2, 0, 1, 1, 1]

2.0 false true 2 10

74 730.00 1

[3, 0, 1, 1, 1]

3.0 false true 2 10

75 520.00 1

[0, 1, 1, 1, 1]

0.0 true true 2 10

76 1140.00 1

[1, 1, 1, 1, 1]

1.0 true true 2 10

77 900.00 1

[2, 1, 1, 1, 1]

2.0 true true 2 10

78 2890.00 2

[3, 1, 1, 1, 1]

3.0 true true 2 10

79 1360.00 2

[0, 0, 0, 2, 1]

0.0 false false 3 10

80 100.00 1

[1, 0, 0, 2, 1]

1.0 false false 3 10

81 1120.00 1

[2, 0, 0, 2, 1]

2.0 false false 3 10

82 670.00 1

[3, 0, 0, 2, 1]

3.0 false false 3 10

83 390.00 1

[0, 1, 0, 2, 1]

0.0 true false 3 10

84 1530.00 1

[1, 1, 0, 2, 1]

1.0 true false 3 10

85 3580.00 1

[2, 1, 0, 2, 1]

2.0 true false 3 10

86 3570.00 1

[3, 1, 0, 2, 1]

3.0 true false 3 10

87 3280.00 1

[0, 0, 1, 2, 1]

0.0 false true 3 10

88 -450.00 1

[1, 0, 1, 2, 1]

1.0 false true 3 10

89 1460.00 1

[2, 0, 1, 2, 1]

2.0 false true 3 10

90 2670.00 1

[3, 0, 1, 2, 1]

3.0 false true 3 10

91 1880.00 1

[0, 1, 1, 2, 1]

0.0 true true 3 10

92 90.00 1

[1, 1, 1, 2, 1]

1.0 true true 3 10

93 2590.00 1

[2, 1, 1, 2, 1]

2.0 true true 3 10

94 340.00 1

[3, 1, 1, 2, 1]

3.0 true true 3 10

95 2340.00 1

[0, 0, 0, 0, 2]

0.0 false false 1 15

96 1120.00 1

[1, 0, 0, 0, 2]

1.0 false false 1 15

97 3770.00 1

[2, 0, 0, 0, 2]

2.0 false false 1 15

98 1300.00 1

[3, 0, 0, 0, 2]

3.0 false false 1 15

99 2630.00 1

[0, 1, 0, 0, 2]

0.0 true false 1 15

100 2810.00 1

[1, 1, 0, 0, 2]

1.0 true false 1 15

101 1130.00 1

[2, 1, 0, 0, 2]

2.0 true false 1 15

102 2740.00 2

[3, 1, 0, 0, 2]

3.0 true false 1 15

103 1390.00 1

[0, 0, 1, 0, 2]

0.0 false true 1 15

104 460.00 1

[1, 0, 1, 0, 2]

1.0 false true 1 15

105 2650.00 1

[2, 0, 1, 0, 2]

2.0 false true 1 15

106 2170.00 1

[3, 0, 1, 0, 2]

3.0 false true 1 15

107 860.00 1

[0, 1, 1, 0, 2]

0.0 true true 1 15

108 6580.00 1

[1, 1, 1, 0, 2]

1.0 true true 1 15

109 1900.00 1

[2, 1, 1, 0, 2]

2.0 true true 1 15

110 2620.00 2

[3, 1, 1, 0, 2]

3.0 true true 1 15

111 2050.00 2

[0, 0, 0, 1, 2]

0.0 false false 2 15

112 390.00 1

[1, 0, 0, 1, 2]

1.0 false false 2 15

113 1880.00 1

[2, 0, 0, 1, 2]

2.0 false false 2 15

114 1010.00 1

[3, 0, 0, 1, 2]

3.0 false false 2 15

115 1510.00 1

[0, 1, 0, 1, 2]

0.0 true false 2 15

116 2400.00 1

[1, 1, 0, 1, 2]

1.0 true false 2 15

117 1160.00 1

[2, 1, 0, 1, 2]

2.0 true false 2 15

118 1890.00 1

[3, 1, 0, 1, 2]

3.0 true false 2 15

119 1950.00 1

[0, 0, 1, 1, 2]

0.0 false true 2 15

120 -210.00 1

[1, 0, 1, 1, 2]

1.0 false true 2 15

121 3900.00 1

[2, 0, 1, 1, 2]

2.0 false true 2 15

122 990.00 1

[3, 0, 1, 1, 2]

3.0 false true 2 15

123 2780.00 1

[0, 1, 1, 1, 2]

0.0 true true 2 15

124 1590.00 1

[1, 1, 1, 1, 2]

1.0 true true 2 15

125 1970.00 1

[2, 1, 1, 1, 2]

2.0 true true 2 15

126 1315.00 2

[3, 1, 1, 1, 2]

3.0 true true 2 15

127 2265.00 2

[0, 0, 0, 2, 2]

0.0 false false 3 15

128 3470.00 1

[1, 0, 0, 2, 2]

1.0 false false 3 15

129 700.00 1

[2, 0, 0, 2, 2]

2.0 false false 3 15

130 230.00 1

[3, 0, 0, 2, 2]

3.0 false false 3 15

131 2000.00 1

[0, 1, 0, 2, 2]

0.0 true false 3 15

132 1220.00 1

[1, 1, 0, 2, 2]

1.0 true false 3 15

133 2620.00 1

[2, 1, 0, 2, 2]

2.0 true false 3 15

134 960.00 1

[3, 1, 0, 2, 2]

3.0 true false 3 15

135 720.00 1

[0, 0, 1, 2, 2]

0.0 false true 3 15

136 3320.00 1

[1, 0, 1, 2, 2]

1.0 false true 3 15

137 270.00 1

[2, 0, 1, 2, 2]

2.0 false true 3 15

138 3740.00 1

[3, 0, 1, 2, 2]

3.0 false true 3 15

139 3430.00 1

[0, 1, 1, 2, 2]

0.0 true true 3 15

140 1590.00 1

[1, 1, 1, 2, 2]

1.0 true true 3 15

141 1800.00 1

[2, 1, 1, 2, 2]

2.0 true true 3 15

142 1360.00 1

[3, 1, 1, 2, 2]

3.0 true true 3 15

143 1900.00 1

[0, 0, 0, 0, 3]

0.0 false false 1 20

144 900.00 1

[1, 0, 0, 0, 3]

1.0 false false 1 20

145 3260.00 1

[2, 0, 0, 0, 3]

2.0 false false 1 20

146 5300.00 1

[3, 0, 0, 0, 3]

3.0 false false 1 20

147 1460.00 1

[0, 1, 0, 0, 3]

0.0 true false 1 20

148 1870.00 1

[1, 1, 0, 0, 3]

1.0 true false 1 20

149 1800.00 1

[2, 1, 0, 0, 3]

2.0 true false 1 20

150 3720.00 1

[3, 1, 0, 0, 3]

3.0 true false 1 20

151 4060.00 1

[0, 0, 1, 0, 3]

0.0 false true 1 20

152 610.00 1

[1, 0, 1, 0, 3]

1.0 false true 1 20

153 1130.00 1

[2, 0, 1, 0, 3]

2.0 false true 1 20

154 3320.00 2

[3, 0, 1, 0, 3]

3.0 false true 1 20

155 3870.00 2

[0, 1, 1, 0, 3]

0.0 true true 1 20

156 3800.00 1

[1, 1, 1, 0, 3]

1.0 true true 1 20

157 6000.00 2

[2, 1, 1, 0, 3]

2.0 true true 1 20

158 3545.00 2

[3, 1, 1, 0, 3]

3.0 true true 1 20

159 3626.67 3

[0, 0, 0, 1, 3]

0.0 false false 2 20

160 920.00 1

[1, 0, 0, 1, 3]

1.0 false false 2 20

161 900.00 1

[2, 0, 0, 1, 3]

2.0 false false 2 20

162 3040.00 1

[3, 0, 0, 1, 3]

3.0 false false 2 20

163 2540.00 1

[0, 1, 0, 1, 3]

0.0 true false 2 20

164 3160.00 1

[1, 1, 0, 1, 3]

1.0 true false 2 20

165 3180.00 1

[2, 1, 0, 1, 3]

2.0 true false 2 20

166 1020.00 1

[3, 1, 0, 1, 3]

3.0 true false 2 20

167 1210.00 1

[0, 0, 1, 1, 3]

0.0 false true 2 20

168 1100.00 1

[1, 0, 1, 1, 3]

1.0 false true 2 20

169 4000.00 1

[2, 0, 1, 1, 3]

2.0 false true 2 20

170 3190.00 1

[3, 0, 1, 1, 3]

3.0 false true 2 20

171 3970.00 1

[0, 1, 1, 1, 3]

0.0 true true 2 20

172 1190.00 1

[1, 1, 1, 1, 3]

1.0 true true 2 20

173 3885.00 2

[2, 1, 1, 1, 3]

2.0 true true 2 20

174 1510.00 2

[3, 1, 1, 1, 3]

3.0 true true 2 20

175 2530.00 2

[0, 0, 0, 2, 3]

0.0 false false 3 20

176 350.00 1

[1, 0, 0, 2, 3]

1.0 false false 3 20

177 460.00 1

[2, 0, 0, 2, 3]

2.0 false false 3 20

178 2560.00 1

[3, 0, 0, 2, 3]

3.0 false false 3 20

179 1270.00 1

[0, 1, 0, 2, 3]

0.0 true false 3 20

180 770.00 1

[1, 1, 0, 2, 3]

1.0 true false 3 20

181 1350.00 1

[2, 1, 0, 2, 3]

2.0 true false 3 20

182 1060.00 1

[3, 1, 0, 2, 3]

3.0 true false 3 20

183 740.00 1

[0, 0, 1, 2, 3]

0.0 false true 3 20

184 -460.00 1

[1, 0, 1, 2, 3]

1.0 false true 3 20

185 3860.00 1

[2, 0, 1, 2, 3]

2.0 false true 3 20

186 3340.00 1

[3, 0, 1, 2, 3]

3.0 false true 3 20

187 7050.00 1

[0, 1, 1, 2, 3]

0.0 true true 3 20

188 790.00 1

[1, 1, 1, 2, 3]

1.0 true true 3 20

189 1240.00 1

[2, 1, 1, 2, 3]

2.0 true true 3 20

190 2200.00 1

[3, 1, 1, 2, 3]

3.0 true true 3 20

191 3295.00 2

[0, 0, 0, 0, 4]

0.0 false false 1 50

192 980.00 1

[1, 0, 0, 0, 4]

1.0 false false 1 50

193 110.00 1

[2, 0, 0, 0, 4]

2.0 false false 1 50

194 640.00 1

[3, 0, 0, 0, 4]

3.0 false false 1 50

195 7560.00 1

[0, 1, 0, 0, 4]

0.0 true false 1 50

196 2850.00 1

[1, 1, 0, 0, 4]

1.0 true false 1 50

197 1925.00 2

[2, 1, 0, 0, 4]

2.0 true false 1 50

198 820.00 1

[3, 1, 0, 0, 4]

3.0 true false 1 50

199 1120.00 1

[0, 0, 1, 0, 4]

0.0 false true 1 50

200 3740.00 1

[1, 0, 1, 0, 4]

1.0 false true 1 50

201 5010.00 2

[2, 0, 1, 0, 4]

2.0 false true 1 50

202 8916.67 3

[3, 0, 1, 0, 4]

3.0 false true 1 50

203 7385.00 2

[0, 1, 1, 0, 4]

0.0 true true 1 50

204 8340.00 2

[1, 1, 1, 0, 4]

1.0 true true 1 50

205 8297.50 4

[2, 1, 1, 0, 4]

2.0 true true 1 50

206 6915.00 8

[3, 1, 1, 0, 4]

3.0 true true 1 50

207 7642.22 9

[0, 0, 0, 1, 4]

0.0 false false 2 50

208 570.00 1

[1, 0, 0, 1, 4]

1.0 false false 2 50

209 700.00 1

[2, 0, 0, 1, 4]

2.0 false false 2 50

210 2410.00 1

[3, 0, 0, 1, 4]

3.0 false false 2 50

211 1380.00 1

[0, 1, 0, 1, 4]

0.0 true false 2 50

212 1390.00 2

[1, 1, 0, 1, 4]

1.0 true false 2 50

213 1610.00 1

[2, 1, 0, 1, 4]

2.0 true false 2 50

214 190.00 1

[3, 1, 0, 1, 4]

3.0 true false 2 50

215 500.00 1

[0, 0, 1, 1, 4]

0.0 false true 2 50

216 -140.00 1

[1, 0, 1, 1, 4]

1.0 false true 2 50

217 5670.00 2

[2, 0, 1, 1, 4]

2.0 false true 2 50

218 4900.00 2

[3, 0, 1, 1, 4]

3.0 false true 2 50

219 6375.00 2

[0, 1, 1, 1, 4]

0.0 true true 2 50

220 5530.00 2

[1, 1, 1, 1, 4]

1.0 true true 2 50

221 3990.00 2

[2, 1, 1, 1, 4]

2.0 true true 2 50

222 7282.50 4

[3, 1, 1, 1, 4]

3.0 true true 2 50

223 7195.00 4

[0, 0, 0, 2, 4]

0.0 false false 3 50

224 320.00 1

[1, 0, 0, 2, 4]

1.0 false false 3 50

225 1480.00 1

[2, 0, 0, 2, 4]

2.0 false false 3 50

226 1460.00 1

[3, 0, 0, 2, 4]

3.0 false false 3 50

227 740.00 1

[0, 1, 0, 2, 4]

0.0 true false 3 50

228 900.00 1

[1, 1, 0, 2, 4]

1.0 true false 3 50

229 660.00 1

[2, 1, 0, 2, 4]

2.0 true false 3 50

230 2500.00 1

[3, 1, 0, 2, 4]

3.0 true false 3 50

231 210.00 1

[0, 0, 1, 2, 4]

0.0 false true 3 50

232 490.00 2

[1, 0, 1, 2, 4]

1.0 false true 3 50

233 4190.00 1

[2, 0, 1, 2, 4]

2.0 false true 3 50

234 5950.00 2

[3, 0, 1, 2, 4]

3.0 false true 3 50

235 7350.00 2

[0, 1, 1, 2, 4]

0.0 true true 3 50

236 4400.00 1

[1, 1, 1, 2, 4]

1.0 true true 3 50

237 7905.00 2

[2, 1, 1, 2, 4]

2.0 true true 3 50

238 9193.33 3

[3, 1, 1, 2, 4]

3.0 true true 3 50

239 7290.00 3

[0, 0, 0, 0, 5]

0.0 false false 1 100

240 1810.00 1

[1, 0, 0, 0, 5]

1.0 false false 1 100

241 480.00 1

[2, 0, 0, 0, 5]

2.0 false false 1 100

242 3620.00 1

[3, 0, 0, 0, 5]

3.0 false false 1 100

243 1570.00 1

[0, 1, 0, 0, 5]

0.0 true false 1 100

244 1670.00 2

[1, 1, 0, 0, 5]

1.0 true false 1 100

245 1120.00 1

[2, 1, 0, 0, 5]

2.0 true false 1 100

246 2610.00 2

[3, 1, 0, 0, 5]

3.0 true false 1 100

247 1005.00 2

[0, 0, 1, 0, 5]

0.0 false true 1 100

248 -220.00 1

[1, 0, 1, 0, 5]

1.0 false true 1 100

249 8826.67 3

[2, 0, 1, 0, 5]

2.0 false true 1 100

250 9478.00 5

[3, 0, 1, 0, 5]

3.0 false true 1 100

251 8340.00 4

[0, 1, 1, 0, 5]

0.0 true true 1 100

252 9530.00 4

[1, 1, 1, 0, 5]

1.0 true true 1 100

253 7330.00 8

[2, 1, 1, 0, 5]

2.0 true true 1 100

254 8729.59 906

[3, 1, 1, 0, 5]

3.0 true true 1 100

255 8823.88 1025

[0, 0, 0, 1, 5]

0.0 false false 2 100

256 1010.00 1

[1, 0, 0, 1, 5]

1.0 false false 2 100

257 2300.00 1

[2, 0, 0, 1, 5]

2.0 false false 2 100

258 1740.00 1

[3, 0, 0, 1, 5]

3.0 false false 2 100

259 650.00 1

[0, 1, 0, 1, 5]

0.0 true false 2 100

260 1730.00 1

[1, 1, 0, 1, 5]

1.0 true false 2 100

261 1710.00 1

[2, 1, 0, 1, 5]

2.0 true false 2 100

262 2250.00 2

[3, 1, 0, 1, 5]

3.0 true false 2 100

263 620.00 1

[0, 0, 1, 1, 5]

0.0 false true 2 100

264 -100.00 1

[1, 0, 1, 1, 5]

1.0 false true 2 100

265 8875.00 2

[2, 0, 1, 1, 5]

2.0 false true 2 100

266 9363.33 3

[3, 0, 1, 1, 5]

3.0 false true 2 100

267 7960.00 3

[0, 1, 1, 1, 5]

0.0 true true 2 100

268 8386.67 3

[1, 1, 1, 1, 5]

1.0 true true 2 100

269 9173.33 6

[2, 1, 1, 1, 5]

2.0 true true 2 100

270 8863.92 148

[3, 1, 1, 1, 5]

3.0 true true 2 100

271 9076.06 254

[0, 0, 0, 2, 5]

0.0 false false 3 100

272 1390.00 1

[1, 0, 0, 2, 5]

1.0 false false 3 100

273 1350.00 1

[2, 0, 0, 2, 5]

2.0 false false 3 100

274 340.00 1

[3, 0, 0, 2, 5]

3.0 false false 3 100

275 1730.00 1

[0, 1, 0, 2, 5]

0.0 true false 3 100

276 780.00 1

[1, 1, 0, 2, 5]

1.0 true false 3 100

277 1280.00 1

[2, 1, 0, 2, 5]

2.0 true false 3 100

278 950.00 1

[3, 1, 0, 2, 5]

3.0 true false 3 100

279 220.00 1

[0, 0, 1, 2, 5]

0.0 false true 3 100

280 270.00 1

[1, 0, 1, 2, 5]

1.0 false true 3 100

281 7435.00 2

[2, 0, 1, 2, 5]

2.0 false true 3 100

282 8600.00 2

[3, 0, 1, 2, 5]

3.0 false true 3 100

283 8746.67 3

[0, 1, 1, 2, 5]

0.0 true true 3 100

284 6265.00 2

[1, 1, 1, 2, 5]

1.0 true true 3 100

285 9280.00 4

[2, 1, 1, 2, 5]

2.0 true true 3 100

286 9201.25 8

[3, 1, 1, 2, 5]

3.0 true true 3 100

287 9196.15 13

[0, 0, 0, 0, 6]

0.0 false false 1 150

288 960.00 1

[1, 0, 0, 0, 6]

1.0 false false 1 150

289 1090.00 1

[2, 0, 0, 0, 6]

2.0 false false 1 150

290 630.00 1

[3, 0, 0, 0, 6]

3.0 false false 1 150

291 730.00 1

[0, 1, 0, 0, 6]

0.0 true false 1 150

292 510.00 1

[1, 1, 0, 0, 6]

1.0 true false 1 150

293 260.00 1

[2, 1, 0, 0, 6]

2.0 true false 1 150

294 1460.00 1

[3, 1, 0, 0, 6]

3.0 true false 1 150

295 750.00 1

[0, 0, 1, 0, 6]

0.0 false true 1 150

296 2390.00 1

[1, 0, 1, 0, 6]

1.0 false true 1 150

297 7865.00 2

[2, 0, 1, 0, 6]

2.0 false true 1 150

298 6730.00 2

[3, 0, 1, 0, 6]

3.0 false true 1 150

299 8760.00 3

[0, 1, 1, 0, 6]

0.0 true true 1 150

300 8456.67 3

[1, 1, 1, 0, 6]

1.0 true true 1 150

301 8064.00 5

[2, 1, 1, 0, 6]

2.0 true true 1 150

302 8148.59 78

[3, 1, 1, 0, 6]

3.0 true true 1 150

303 7989.52 105

[0, 0, 0, 1, 6]

0.0 false false 2 150

304 250.00 1

[1, 0, 0, 1, 6]

1.0 false false 2 150

305 2060.00 1

[2, 0, 0, 1, 6]

2.0 false false 2 150

306 1440.00 1

[3, 0, 0, 1, 6]

3.0 false false 2 150

307 1150.00 1

[0, 1, 0, 1, 6]

0.0 true false 2 150

308 470.00 1

[1, 1, 0, 1, 6]

1.0 true false 2 150

309 1190.00 1

[2, 1, 0, 1, 6]

2.0 true false 2 150

310 520.00 1

[3, 1, 0, 1, 6]

3.0 true false 2 150

311 1370.00 1

[0, 0, 1, 1, 6]

0.0 false true 2 150

312 -50.00 1

[1, 0, 1, 1, 6]

1.0 false true 2 150

313 7920.00 2

[2, 0, 1, 1, 6]

2.0 false true 2 150

314 8595.00 2

[3, 0, 1, 1, 6]

3.0 false true 2 150

315 6990.00 2

[0, 1, 1, 1, 6]

0.0 true true 2 150

316 8920.00 2

[1, 1, 1, 1, 6]

1.0 true true 2 150

317 8296.67 3

[2, 1, 1, 1, 6]

2.0 true true 2 150

318 8132.73 11

[3, 1, 1, 1, 6]

3.0 true true 2 150

319 8286.67 12

[0, 0, 0, 2, 6]

0.0 false false 3 150

320 1090.00 1

[1, 0, 0, 2, 6]

1.0 false false 3 150

321 1200.00 1

[2, 0, 0, 2, 6]

2.0 false false 3 150

322 1710.00 1

[3, 0, 0, 2, 6]

3.0 false false 3 150

323 1290.00 1

[0, 1, 0, 2, 6]

0.0 true false 3 150

324 -50.00 1

[1, 1, 0, 2, 6]

1.0 true false 3 150

325 1650.00 1

[2, 1, 0, 2, 6]

2.0 true false 3 150

326 510.00 1

[3, 1, 0, 2, 6]

3.0 true false 3 150

327 340.00 1

[0, 0, 1, 2, 6]

0.0 false true 3 150

328 1170.00 1

[1, 0, 1, 2, 6]

1.0 false true 3 150

329 8660.00 2

[2, 0, 1, 2, 6]

2.0 false true 3 150

330 1960.00 1

[3, 0, 1, 2, 6]

3.0 false true 3 150

331 8810.00 2

[0, 1, 1, 2, 6]

0.0 true true 3 150

332 2180.00 1

[1, 1, 1, 2, 6]

1.0 true true 3 150

333 8546.67 3

[2, 1, 1, 2, 6]

2.0 true true 3 150

334 8732.50 4

[3, 1, 1, 2, 6]

3.0 true true 3 150

335 8864.00 5

GridModel has 16 tuples.

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 620.0

max = 10030.0

ave = 8686.5

sd = 1615.7722455516277

se = 161.5772245551628

sum = 868650.0

sumsq = 7.8039895E9

n = 100

Checks complete: 250724 ms elapsed

Solution: [3, 1, 1, 0, 5]

Search space has 5 dimensions

Point Mutation Rate

[0]

0.0

0 2498.98 98

[1]

1.0

1 4447.87 127

[2]

2.0

2 8313.71 1417

[3]

3.0

3 8459.82 1718

Flip at least one bit?

[0]

false

0 3388.42 209

[1]

true

1 8383.40 3151

Use shift Buffer?

[0]

false

0 1461.12 178

[1]

true

1 8442.55 3182

nResamples

[0]

1

0 8418.20 2558

[1]

2

1 7668.74 641

[2]

3

2 4191.61 161

sequence length

[0]

5

0 602.12 52

[1]

10

1 1756.67 54

[2]

15

2 1948.87 53

[3]

20

3 2592.88 59

[4]

50

4 5192.61 92

[5]

100

5 8735.76 2766

[6]

150

6 7397.85 284

Point Mutation Rate

Flip at least one bit?

[0, 0]

0.0 false

0 876.98 43

[1, 0]

1.0 false

1 3581.32 53

[2, 0]

2.0 false

2 4150.89 56

[3, 0]

3.0 false

3 4354.56 57

[0, 1]

0.0 true

4 3767.09 55

[1, 1]

1.0 true

5 5068.51 74

[2, 1]

2.0 true

6 8484.99 1361

[3, 1]

3.0 true

7 8600.70 1661

Point Mutation Rate

Use shift Buffer?

[0, 0]

0.0 false

0 1246.36 44

[1, 0]

1.0 false

1 1467.05 44

[2, 0]

2.0 false

2 1682.00 45

[3, 0]

3.0 false

3 1444.44 45

[0, 1]

0.0 true

4 3519.63 54

[1, 1]

1.0 true

5 6028.07 83

[2, 1]

2.0 true

6 8531.22 1372

[3, 1]

3.0 true

7 8648.52 1673

Point Mutation Rate

nResamples

[0, 0]

0.0 1

0 3595.71 35

[1, 0]

1.0 1

1 4725.92 49

[2, 0]

2.0 1

2 8518.18 1156

[3, 0]

3.0 1

3 8595.84 1318

[0, 1]

0.0 2

4 2321.52 33

[1, 1]

1.0 2

5 4521.71 41

[2, 1]

2.0 2

6 7942.39 218

[3, 1]

3.0 2

7 8373.12 349

[0, 2]

0.0 3

8 1414.67 30

[1, 2]

1.0 3

9 3997.84 37

[2, 2]

2.0 3

10 4699.07 43

[3, 2]

3.0 3

11 5537.84 51

Point Mutation Rate

sequence length

[0, 0]

0.0 5

0 600.83 12

[1, 0]

1.0 5

1 553.08 13

[2, 0]

2.0 5

2 615.38 13

[3, 0]

3.0 5

3 636.43 14

[0, 1]

0.0 10

4 1240.00 12

[1, 1]

1.0 10

5 2053.85 13

[2, 1]

2.0 10

6 1746.43 14

[3, 1]

3.0 10

7 1922.00 15

[0, 2]

0.0 15

8 2061.67 12

[1, 2]

1.0 15

9 1979.17 12

[2, 2]

2.0 15

10 1800.00 15

[3, 2]

3.0 15

11 1985.71 14

[0, 3]

0.0 20

12 1250.00 12

[1, 3]

1.0 20

13 2925.00 14

[2, 3]

2.0 20

14 2778.75 16

[3, 3]

3.0 20

15 3092.35 17

[0, 4]

0.0 50

16 2820.00 16

[1, 4]

1.0 50

17 4547.00 20

[2, 4]

2.0 50

18 6017.86 28

[3, 4]

3.0 50

19 6184.29 28

[0, 5]

0.0 100

20 4516.84 19

[1, 5]

1.0 100

21 7130.00 32

[2, 5]

2.0 100

22 8728.85 1224

[3, 5]

3.0 100

23 8829.66 1491

[0, 6]

0.0 150

24 3475.33 15

[1, 6]

1.0 150

25 6399.57 23

[2, 6]

2.0 150

26 7700.93 107

[3, 6]

3.0 150

27 7753.02 139

Flip at least one bit?

Use shift Buffer?

[0, 0]

false false

0 1386.94 85

[1, 0]

true false

1 1528.92 93

[0, 1]

false true

2 4760.40 124

[1, 1]

true true

3 8591.86 3058

Flip at least one bit?

nResamples

[0, 0]

false 1

0 4005.53 76

[1, 0]

true 1

1 8553.32 2482

[0, 1]

false 2

2 3164.63 67

[1, 1]

true 2

3 8194.48 574

[0, 2]

false 3

4 2905.00 66

[1, 2]

true 3

5 5085.47 95

Flip at least one bit?

sequence length

[0, 0]

false 5

0 532.40 25

[1, 0]

true 5

1 666.67 27

[0, 1]

false 10

2 1461.20 25

[1, 1]

true 10

3 2011.38 29

[0, 2]

false 15

4 1848.75 24

[1, 2]

true 15

5 2031.72 29

[0, 3]

false 20

6 2505.00 26

[1, 3]

true 20

7 2662.12 33

[0, 4]

false 50

8 4092.65 34

[1, 4]

true 50

9 5837.41 58

[0, 5]

false 100

10 6028.57 42

[1, 5]

true 100

11 8777.50 2724

[0, 6]

false 150

12 4742.12 33

[1, 6]

true 150

13 7747.01 251

Use shift Buffer?

nResamples

[0, 0]

false 1

0 1684.26 61

[1, 0]

true 1

1 8582.71 2497

[0, 1]

false 2

2 1459.00 60

[1, 1]

true 2

3 8310.02 581

[0, 2]

false 3

4 1224.56 57

[1, 2]

true 3

5 5817.79 104

Use shift Buffer?

sequence length

[0, 0]

false 5

0 730.00 25

[1, 0]

true 5

1 483.70 27

[0, 1]

false 10

2 1945.60 25

[1, 1]

true 10

3 1593.79 29

[0, 2]

false 15

4 1749.60 25

[1, 2]

true 15

5 2126.79 28

[0, 3]

false 20

6 1954.17 24

[1, 3]

true 20

7 3030.86 35

[0, 4]

false 50

8 1397.69 26

[1, 4]

true 50

9 6687.58 66

[0, 5]

false 100

10 1504.48 29

[1, 5]

true 100

11 8812.38 2737

[0, 6]

false 150

12 940.83 24

[1, 6]

true 150

13 7993.88 260

nResamples

sequence length

[0, 0]

1 5

0 522.22 18

[1, 0]

2 5

1 530.00 17

[2, 0]

3 5

2 758.82 17

[0, 1]

1 10

3 1865.26 19

[1, 1]

2 10

4 1803.16 19

[2, 1]

3 10

5 1572.50 16

[0, 2]

1 15

6 2294.21 19

[1, 2]

2 15

7 1687.22 18

[2, 2]

3 15

8 1833.13 16

[0, 3]

1 20

9 3284.55 22

[1, 3]

2 20

10 2382.63 19

[2, 3]

3 20

11 1969.44 18

[0, 4]

1 50

12 6179.50 40

[1, 4]

2 50

13 4315.71 28

[2, 4]

3 50

14 4570.83 24

[0, 5]

1 100

15 8743.82 2229

[1, 5]

2 100

16 8833.44 494

[2, 5]

3 100

17 7196.05 43

[0, 6]

1 150

18 7753.18 211

[1, 6]

2 150

19 6786.74 46

[2, 6]

3 150

20 5662.22 27

Point Mutation Rate

Flip at least one bit?

Use shift Buffer?

nResamples

sequence length

[0, 0, 0, 0, 0]

0.0 false false 1 5

0 920.00 1

[1, 0, 0, 0, 0]

1.0 false false 1 5

1 240.00 1

[2, 0, 0, 0, 0]

2.0 false false 1 5

2 730.00 1

[3, 0, 0, 0, 0]

3.0 false false 1 5

3 340.00 1

[0, 1, 0, 0, 0]

0.0 true false 1 5

4 -20.00 1

[1, 1, 0, 0, 0]

1.0 true false 1 5

5 500.00 1

[2, 1, 0, 0, 0]

2.0 true false 1 5

6 1080.00 1

[3, 1, 0, 0, 0]

3.0 true false 1 5

7 330.00 1

[0, 0, 1, 0, 0]

0.0 false true 1 5

8 1110.00 1

[1, 0, 1, 0, 0]

1.0 false true 1 5

9 -210.00 1

[2, 0, 1, 0, 0]

2.0 false true 1 5

10 -180.00 1

[3, 0, 1, 0, 0]

3.0 false true 1 5

11 50.00 1

[0, 1, 1, 0, 0]

0.0 true true 1 5

12 70.00 1

[1, 1, 1, 0, 0]

1.0 true true 1 5

13 480.00 1

[2, 1, 1, 0, 0]

2.0 true true 1 5

14 745.00 2

[3, 1, 1, 0, 0]

3.0 true true 1 5

15 1235.00 2

[0, 0, 0, 1, 0]

0.0 false false 2 5

16 -30.00 1

[1, 0, 0, 1, 0]

1.0 false false 2 5

17 1110.00 1

[2, 0, 0, 1, 0]

2.0 false false 2 5

18 200.00 1

[3, 0, 0, 1, 0]

3.0 false false 2 5

19 -140.00 1

[0, 1, 0, 1, 0]

0.0 true false 2 5

20 710.00 1

[1, 1, 0, 1, 0]

1.0 true false 2 5

21 410.00 1

[2, 1, 0, 1, 0]

2.0 true false 2 5

22 640.00 1

[3, 1, 0, 1, 0]

3.0 true false 2 5

23 200.00 1

[0, 0, 1, 1, 0]

0.0 false true 2 5

24 -400.00 1

[1, 0, 1, 1, 0]

1.0 false true 2 5

25 200.00 1

[2, 0, 1, 1, 0]

2.0 false true 2 5

26 1040.00 1

[3, 0, 1, 1, 0]

3.0 false true 2 5

27 2550.00 1

[0, 1, 1, 1, 0]

0.0 true true 2 5

28 690.00 1

[1, 1, 1, 1, 0]

1.0 true true 2 5

29 160.00 1

[2, 1, 1, 1, 0]

2.0 true true 2 5

30 570.00 1

[3, 1, 1, 1, 0]

3.0 true true 2 5

31 550.00 2

[0, 0, 0, 2, 0]

0.0 false false 3 5

32 370.00 1

[1, 0, 0, 2, 0]

1.0 false false 3 5

33 1350.00 2

[2, 0, 0, 2, 0]

2.0 false false 3 5

34 850.00 1

[3, 0, 0, 2, 0]

3.0 false false 3 5

35 800.00 1

[0, 1, 0, 2, 0]

0.0 true false 3 5

36 3580.00 1

[1, 1, 0, 2, 0]

1.0 true false 3 5

37 1290.00 1

[2, 1, 0, 2, 0]

2.0 true false 3 5

38 1140.00 1

[3, 1, 0, 2, 0]

3.0 true false 3 5

39 300.00 1

[0, 0, 1, 2, 0]

0.0 false true 3 5

40 240.00 1

[1, 0, 1, 2, 0]

1.0 false true 3 5

41 150.00 1

[2, 0, 1, 2, 0]

2.0 false true 3 5

42 240.00 1

[3, 0, 1, 2, 0]

3.0 false true 3 5

43 430.00 1

[0, 1, 1, 2, 0]

0.0 true true 3 5

44 -30.00 1

[1, 1, 1, 2, 0]

1.0 true true 3 5

45 160.00 1

[2, 1, 1, 2, 0]

2.0 true true 3 5

46 200.00 1

[3, 1, 1, 2, 0]

3.0 true true 3 5

47 480.00 1

[0, 0, 0, 0, 1]

0.0 false false 1 10

48 2060.00 1

[1, 0, 0, 0, 1]

1.0 false false 1 10

49 2830.00 1

[2, 0, 0, 0, 1]

2.0 false false 1 10

50 1260.00 1

[3, 0, 0, 0, 1]

3.0 false false 1 10

51 1310.00 1

[0, 1, 0, 0, 1]

0.0 true false 1 10

52 890.00 1

[1, 1, 0, 0, 1]

1.0 true false 1 10

53 520.00 1

[2, 1, 0, 0, 1]

2.0 true false 1 10

54 1850.00 1

[3, 1, 0, 0, 1]

3.0 true false 1 10

55 2410.00 1

[0, 0, 1, 0, 1]

0.0 false true 1 10

56 4020.00 1

[1, 0, 1, 0, 1]

1.0 false true 1 10

57 2845.00 2

[2, 0, 1, 0, 1]

2.0 false true 1 10

58 1100.00 1

[3, 0, 1, 0, 1]

3.0 false true 1 10

59 820.00 1

[0, 1, 1, 0, 1]

0.0 true true 1 10

60 2120.00 1

[1, 1, 1, 0, 1]

1.0 true true 1 10

61 2590.00 1

[2, 1, 1, 0, 1]

2.0 true true 1 10

62 505.00 2

[3, 1, 1, 0, 1]

3.0 true true 1 10

63 2480.00 2

[0, 0, 0, 1, 1]

0.0 false false 2 10

64 1660.00 1

[1, 0, 0, 1, 1]

1.0 false false 2 10

65 1950.00 1

[2, 0, 0, 1, 1]

2.0 false false 2 10

66 1900.00 1

[3, 0, 0, 1, 1]

3.0 false false 2 10

67 1640.00 1

[0, 1, 0, 1, 1]

0.0 true false 2 10

68 2000.00 1

[1, 1, 0, 1, 1]

1.0 true false 2 10

69 1990.00 1

[2, 1, 0, 1, 1]

2.0 true false 2 10

70 3570.00 1

[3, 1, 0, 1, 1]

3.0 true false 2 10

71 3280.00 2

[0, 0, 1, 1, 1]

0.0 false true 2 10

72 -280.00 1

[1, 0, 1, 1, 1]

1.0 false true 2 10

73 1480.00 1

[2, 0, 1, 1, 1]

2.0 false true 2 10

74 730.00 1

[3, 0, 1, 1, 1]

3.0 false true 2 10

75 520.00 1

[0, 1, 1, 1, 1]

0.0 true true 2 10

76 1140.00 1

[1, 1, 1, 1, 1]

1.0 true true 2 10

77 900.00 1

[2, 1, 1, 1, 1]

2.0 true true 2 10

78 2890.00 2

[3, 1, 1, 1, 1]

3.0 true true 2 10

79 1360.00 2

[0, 0, 0, 2, 1]

0.0 false false 3 10

80 100.00 1

[1, 0, 0, 2, 1]

1.0 false false 3 10

81 1120.00 1

[2, 0, 0, 2, 1]

2.0 false false 3 10

82 670.00 1

[3, 0, 0, 2, 1]

3.0 false false 3 10

83 390.00 1

[0, 1, 0, 2, 1]

0.0 true false 3 10

84 1530.00 1

[1, 1, 0, 2, 1]

1.0 true false 3 10

85 3580.00 1

[2, 1, 0, 2, 1]

2.0 true false 3 10

86 3570.00 1

[3, 1, 0, 2, 1]

3.0 true false 3 10

87 3280.00 1

[0, 0, 1, 2, 1]

0.0 false true 3 10

88 -450.00 1

[1, 0, 1, 2, 1]

1.0 false true 3 10

89 1460.00 1

[2, 0, 1, 2, 1]

2.0 false true 3 10

90 2670.00 1

[3, 0, 1, 2, 1]

3.0 false true 3 10

91 1880.00 1

[0, 1, 1, 2, 1]

0.0 true true 3 10

92 90.00 1

[1, 1, 1, 2, 1]

1.0 true true 3 10

93 2590.00 1

[2, 1, 1, 2, 1]

2.0 true true 3 10

94 340.00 1

[3, 1, 1, 2, 1]

3.0 true true 3 10

95 2340.00 1

[0, 0, 0, 0, 2]

0.0 false false 1 15

96 1120.00 1

[1, 0, 0, 0, 2]

1.0 false false 1 15

97 3770.00 1

[2, 0, 0, 0, 2]

2.0 false false 1 15

98 1300.00 1

[3, 0, 0, 0, 2]

3.0 false false 1 15

99 2630.00 1

[0, 1, 0, 0, 2]

0.0 true false 1 15

100 2810.00 1

[1, 1, 0, 0, 2]

1.0 true false 1 15

101 1130.00 1

[2, 1, 0, 0, 2]

2.0 true false 1 15

102 2740.00 2

[3, 1, 0, 0, 2]

3.0 true false 1 15

103 1390.00 1

[0, 0, 1, 0, 2]

0.0 false true 1 15

104 460.00 1

[1, 0, 1, 0, 2]

1.0 false true 1 15

105 2650.00 1

[2, 0, 1, 0, 2]

2.0 false true 1 15

106 2170.00 1

[3, 0, 1, 0, 2]

3.0 false true 1 15

107 860.00 1

[0, 1, 1, 0, 2]

0.0 true true 1 15

108 6580.00 1

[1, 1, 1, 0, 2]

1.0 true true 1 15

109 1900.00 1

[2, 1, 1, 0, 2]

2.0 true true 1 15

110 2620.00 2

[3, 1, 1, 0, 2]

3.0 true true 1 15

111 2050.00 2

[0, 0, 0, 1, 2]

0.0 false false 2 15

112 390.00 1

[1, 0, 0, 1, 2]

1.0 false false 2 15

113 1880.00 1

[2, 0, 0, 1, 2]

2.0 false false 2 15

114 1010.00 1

[3, 0, 0, 1, 2]

3.0 false false 2 15

115 1510.00 1

[0, 1, 0, 1, 2]

0.0 true false 2 15

116 2400.00 1

[1, 1, 0, 1, 2]

1.0 true false 2 15

117 1160.00 1

[2, 1, 0, 1, 2]

2.0 true false 2 15

118 1890.00 1

[3, 1, 0, 1, 2]

3.0 true false 2 15

119 1950.00 1

[0, 0, 1, 1, 2]

0.0 false true 2 15

120 -210.00 1

[1, 0, 1, 1, 2]

1.0 false true 2 15

121 3900.00 1

[2, 0, 1, 1, 2]

2.0 false true 2 15

122 990.00 1

[3, 0, 1, 1, 2]

3.0 false true 2 15

123 2780.00 1

[0, 1, 1, 1, 2]

0.0 true true 2 15

124 1590.00 1

[1, 1, 1, 1, 2]

1.0 true true 2 15

125 1970.00 1

[2, 1, 1, 1, 2]

2.0 true true 2 15

126 1315.00 2

[3, 1, 1, 1, 2]

3.0 true true 2 15

127 2265.00 2

[0, 0, 0, 2, 2]

0.0 false false 3 15

128 3470.00 1

[1, 0, 0, 2, 2]

1.0 false false 3 15

129 700.00 1

[2, 0, 0, 2, 2]

2.0 false false 3 15

130 230.00 1

[3, 0, 0, 2, 2]

3.0 false false 3 15

131 2000.00 1

[0, 1, 0, 2, 2]

0.0 true false 3 15

132 1220.00 1

[1, 1, 0, 2, 2]

1.0 true false 3 15

133 2620.00 1

[2, 1, 0, 2, 2]

2.0 true false 3 15

134 960.00 1

[3, 1, 0, 2, 2]

3.0 true false 3 15

135 720.00 1

[0, 0, 1, 2, 2]

0.0 false true 3 15

136 3320.00 1

[1, 0, 1, 2, 2]

1.0 false true 3 15

137 270.00 1

[2, 0, 1, 2, 2]

2.0 false true 3 15

138 3740.00 1

[3, 0, 1, 2, 2]

3.0 false true 3 15

139 3430.00 1

[0, 1, 1, 2, 2]

0.0 true true 3 15

140 1590.00 1

[1, 1, 1, 2, 2]

1.0 true true 3 15

141 1800.00 1

[2, 1, 1, 2, 2]

2.0 true true 3 15

142 1360.00 1

[3, 1, 1, 2, 2]

3.0 true true 3 15

143 1900.00 1

[0, 0, 0, 0, 3]

0.0 false false 1 20

144 900.00 1

[1, 0, 0, 0, 3]

1.0 false false 1 20

145 3260.00 1

[2, 0, 0, 0, 3]

2.0 false false 1 20

146 5300.00 1

[3, 0, 0, 0, 3]

3.0 false false 1 20

147 1460.00 1

[0, 1, 0, 0, 3]

0.0 true false 1 20

148 1870.00 1

[1, 1, 0, 0, 3]

1.0 true false 1 20

149 1800.00 1

[2, 1, 0, 0, 3]

2.0 true false 1 20

150 3720.00 1

[3, 1, 0, 0, 3]

3.0 true false 1 20

151 4060.00 1

[0, 0, 1, 0, 3]

0.0 false true 1 20

152 610.00 1

[1, 0, 1, 0, 3]

1.0 false true 1 20

153 1130.00 1

[2, 0, 1, 0, 3]

2.0 false true 1 20

154 3320.00 2

[3, 0, 1, 0, 3]

3.0 false true 1 20

155 3870.00 2

[0, 1, 1, 0, 3]

0.0 true true 1 20

156 3800.00 1

[1, 1, 1, 0, 3]

1.0 true true 1 20

157 6000.00 2

[2, 1, 1, 0, 3]

2.0 true true 1 20

158 3545.00 2

[3, 1, 1, 0, 3]

3.0 true true 1 20

159 3626.67 3

[0, 0, 0, 1, 3]

0.0 false false 2 20

160 920.00 1

[1, 0, 0, 1, 3]

1.0 false false 2 20

161 900.00 1

[2, 0, 0, 1, 3]

2.0 false false 2 20

162 3040.00 1

[3, 0, 0, 1, 3]

3.0 false false 2 20

163 2540.00 1

[0, 1, 0, 1, 3]

0.0 true false 2 20

164 3160.00 1

[1, 1, 0, 1, 3]

1.0 true false 2 20

165 3180.00 1

[2, 1, 0, 1, 3]

2.0 true false 2 20

166 1020.00 1

[3, 1, 0, 1, 3]

3.0 true false 2 20

167 1210.00 1

[0, 0, 1, 1, 3]

0.0 false true 2 20

168 1100.00 1

[1, 0, 1, 1, 3]

1.0 false true 2 20

169 4000.00 1

[2, 0, 1, 1, 3]

2.0 false true 2 20

170 3190.00 1

[3, 0, 1, 1, 3]

3.0 false true 2 20

171 3970.00 1

[0, 1, 1, 1, 3]

0.0 true true 2 20

172 1190.00 1

[1, 1, 1, 1, 3]

1.0 true true 2 20

173 3885.00 2

[2, 1, 1, 1, 3]

2.0 true true 2 20

174 1510.00 2

[3, 1, 1, 1, 3]

3.0 true true 2 20

175 2530.00 2

[0, 0, 0, 2, 3]

0.0 false false 3 20

176 350.00 1

[1, 0, 0, 2, 3]

1.0 false false 3 20

177 460.00 1

[2, 0, 0, 2, 3]

2.0 false false 3 20

178 2560.00 1

[3, 0, 0, 2, 3]

3.0 false false 3 20

179 1270.00 1

[0, 1, 0, 2, 3]

0.0 true false 3 20

180 770.00 1

[1, 1, 0, 2, 3]

1.0 true false 3 20

181 1350.00 1

[2, 1, 0, 2, 3]

2.0 true false 3 20

182 1060.00 1

[3, 1, 0, 2, 3]

3.0 true false 3 20

183 740.00 1

[0, 0, 1, 2, 3]

0.0 false true 3 20

184 -460.00 1

[1, 0, 1, 2, 3]

1.0 false true 3 20

185 3860.00 1

[2, 0, 1, 2, 3]

2.0 false true 3 20

186 3340.00 1

[3, 0, 1, 2, 3]

3.0 false true 3 20

187 7050.00 1

[0, 1, 1, 2, 3]

0.0 true true 3 20

188 790.00 1

[1, 1, 1, 2, 3]

1.0 true true 3 20

189 1240.00 1

[2, 1, 1, 2, 3]

2.0 true true 3 20

190 2240.00 2

[3, 1, 1, 2, 3]

3.0 true true 3 20

191 3295.00 2

[0, 0, 0, 0, 4]

0.0 false false 1 50

192 980.00 1

[1, 0, 0, 0, 4]

1.0 false false 1 50

193 110.00 1

[2, 0, 0, 0, 4]

2.0 false false 1 50

194 640.00 1

[3, 0, 0, 0, 4]

3.0 false false 1 50

195 7560.00 1

[0, 1, 0, 0, 4]

0.0 true false 1 50

196 2850.00 1

[1, 1, 0, 0, 4]

1.0 true false 1 50

197 1925.00 2

[2, 1, 0, 0, 4]

2.0 true false 1 50

198 820.00 1

[3, 1, 0, 0, 4]

3.0 true false 1 50

199 1120.00 1

[0, 0, 1, 0, 4]

0.0 false true 1 50

200 3740.00 1

[1, 0, 1, 0, 4]

1.0 false true 1 50

201 5010.00 2

[2, 0, 1, 0, 4]

2.0 false true 1 50

202 8916.67 3

[3, 0, 1, 0, 4]

3.0 false true 1 50

203 7385.00 2

[0, 1, 1, 0, 4]

0.0 true true 1 50

204 8340.00 2

[1, 1, 1, 0, 4]

1.0 true true 1 50

205 8297.50 4

[2, 1, 1, 0, 4]

2.0 true true 1 50

206 6915.00 8

[3, 1, 1, 0, 4]

3.0 true true 1 50

207 7642.22 9

[0, 0, 0, 1, 4]

0.0 false false 2 50

208 570.00 1

[1, 0, 0, 1, 4]

1.0 false false 2 50

209 700.00 1

[2, 0, 0, 1, 4]

2.0 false false 2 50

210 2410.00 1

[3, 0, 0, 1, 4]

3.0 false false 2 50

211 1380.00 1

[0, 1, 0, 1, 4]

0.0 true false 2 50

212 1390.00 2

[1, 1, 0, 1, 4]

1.0 true false 2 50

213 1610.00 1

[2, 1, 0, 1, 4]

2.0 true false 2 50

214 190.00 1

[3, 1, 0, 1, 4]

3.0 true false 2 50

215 500.00 1

[0, 0, 1, 1, 4]

0.0 false true 2 50

216 -140.00 1

[1, 0, 1, 1, 4]

1.0 false true 2 50

217 5670.00 2

[2, 0, 1, 1, 4]

2.0 false true 2 50

218 4900.00 2

[3, 0, 1, 1, 4]

3.0 false true 2 50

219 6375.00 2

[0, 1, 1, 1, 4]

0.0 true true 2 50

220 5530.00 2

[1, 1, 1, 1, 4]

1.0 true true 2 50

221 3990.00 2

[2, 1, 1, 1, 4]

2.0 true true 2 50

222 7282.50 4

[3, 1, 1, 1, 4]

3.0 true true 2 50

223 7195.00 4

[0, 0, 0, 2, 4]

0.0 false false 3 50

224 320.00 1

[1, 0, 0, 2, 4]

1.0 false false 3 50

225 1480.00 1

[2, 0, 0, 2, 4]

2.0 false false 3 50

226 1460.00 1

[3, 0, 0, 2, 4]

3.0 false false 3 50

227 740.00 1

[0, 1, 0, 2, 4]

0.0 true false 3 50

228 900.00 1

[1, 1, 0, 2, 4]

1.0 true false 3 50

229 660.00 1

[2, 1, 0, 2, 4]

2.0 true false 3 50

230 2500.00 1

[3, 1, 0, 2, 4]

3.0 true false 3 50

231 210.00 1

[0, 0, 1, 2, 4]

0.0 false true 3 50

232 490.00 2

[1, 0, 1, 2, 4]

1.0 false true 3 50

233 4190.00 1

[2, 0, 1, 2, 4]

2.0 false true 3 50

234 5950.00 2

[3, 0, 1, 2, 4]

3.0 false true 3 50

235 7350.00 2

[0, 1, 1, 2, 4]

0.0 true true 3 50

236 4400.00 1

[1, 1, 1, 2, 4]

1.0 true true 3 50

237 7905.00 2

[2, 1, 1, 2, 4]

2.0 true true 3 50

238 9193.33 3

[3, 1, 1, 2, 4]

3.0 true true 3 50

239 7290.00 3

[0, 0, 0, 0, 5]

0.0 false false 1 100

240 1810.00 1

[1, 0, 0, 0, 5]

1.0 false false 1 100

241 480.00 1

[2, 0, 0, 0, 5]

2.0 false false 1 100

242 3620.00 1

[3, 0, 0, 0, 5]

3.0 false false 1 100

243 1570.00 1

[0, 1, 0, 0, 5]

0.0 true false 1 100

244 1670.00 2

[1, 1, 0, 0, 5]

1.0 true false 1 100

245 1120.00 1

[2, 1, 0, 0, 5]

2.0 true false 1 100

246 2610.00 2

[3, 1, 0, 0, 5]

3.0 true false 1 100

247 1005.00 2

[0, 0, 1, 0, 5]

0.0 false true 1 100

248 -220.00 1

[1, 0, 1, 0, 5]

1.0 false true 1 100

249 8826.67 3

[2, 0, 1, 0, 5]

2.0 false true 1 100

250 9478.00 5

[3, 0, 1, 0, 5]

3.0 false true 1 100

251 8340.00 4

[0, 1, 1, 0, 5]

0.0 true true 1 100

252 9530.00 4

[1, 1, 1, 0, 5]

1.0 true true 1 100

253 7330.00 8

[2, 1, 1, 0, 5]

2.0 true true 1 100

254 8741.55 1029

[3, 1, 1, 0, 5]

3.0 true true 1 100

255 8824.73 1164

[0, 0, 0, 1, 5]

0.0 false false 2 100

256 1010.00 1

[1, 0, 0, 1, 5]

1.0 false false 2 100

257 2300.00 1

[2, 0, 0, 1, 5]

2.0 false false 2 100

258 1740.00 1

[3, 0, 0, 1, 5]

3.0 false false 2 100

259 650.00 1

[0, 1, 0, 1, 5]

0.0 true false 2 100

260 1730.00 1

[1, 1, 0, 1, 5]

1.0 true false 2 100

261 1710.00 1

[2, 1, 0, 1, 5]

2.0 true false 2 100

262 2250.00 2

[3, 1, 0, 1, 5]

3.0 true false 2 100

263 1390.00 2

[0, 0, 1, 1, 5]

0.0 false true 2 100

264 -100.00 1

[1, 0, 1, 1, 5]

1.0 false true 2 100

265 8875.00 2

[2, 0, 1, 1, 5]

2.0 false true 2 100

266 9363.33 3

[3, 0, 1, 1, 5]

3.0 false true 2 100

267 7960.00 3

[0, 1, 1, 1, 5]

0.0 true true 2 100

268 8386.67 3

[1, 1, 1, 1, 5]

1.0 true true 2 100

269 9294.29 7

[2, 1, 1, 1, 5]

2.0 true true 2 100

270 8913.61 169

[3, 1, 1, 1, 5]

3.0 true true 2 100

271 9057.64 296

[0, 0, 0, 2, 5]

0.0 false false 3 100

272 1390.00 1

[1, 0, 0, 2, 5]

1.0 false false 3 100

273 1350.00 1

[2, 0, 0, 2, 5]

2.0 false false 3 100

274 340.00 1

[3, 0, 0, 2, 5]

3.0 false false 3 100

275 1730.00 1

[0, 1, 0, 2, 5]

0.0 true false 3 100

276 780.00 1

[1, 1, 0, 2, 5]

1.0 true false 3 100

277 1280.00 1

[2, 1, 0, 2, 5]

2.0 true false 3 100

278 950.00 1

[3, 1, 0, 2, 5]

3.0 true false 3 100

279 220.00 1

[0, 0, 1, 2, 5]

0.0 false true 3 100

280 270.00 1

[1, 0, 1, 2, 5]

1.0 false true 3 100

281 7435.00 2

[2, 0, 1, 2, 5]

2.0 false true 3 100

282 8600.00 2

[3, 0, 1, 2, 5]

3.0 false true 3 100

283 8746.67 3

[0, 1, 1, 2, 5]

0.0 true true 3 100

284 6265.00 2

[1, 1, 1, 2, 5]

1.0 true true 3 100

285 9280.00 4

[2, 1, 1, 2, 5]

2.0 true true 3 100

286 9201.25 8

[3, 1, 1, 2, 5]

3.0 true true 3 100

287 9196.15 13

[0, 0, 0, 0, 6]

0.0 false false 1 150

288 960.00 1

[1, 0, 0, 0, 6]

1.0 false false 1 150

289 1090.00 1

[2, 0, 0, 0, 6]

2.0 false false 1 150

290 630.00 1

[3, 0, 0, 0, 6]

3.0 false false 1 150

291 730.00 1

[0, 1, 0, 0, 6]

0.0 true false 1 150

292 510.00 1

[1, 1, 0, 0, 6]

1.0 true false 1 150

293 260.00 1

[2, 1, 0, 0, 6]

2.0 true false 1 150

294 1460.00 1

[3, 1, 0, 0, 6]

3.0 true false 1 150

295 750.00 1

[0, 0, 1, 0, 6]

0.0 false true 1 150

296 2390.00 1

[1, 0, 1, 0, 6]

1.0 false true 1 150

297 7865.00 2

[2, 0, 1, 0, 6]

2.0 false true 1 150

298 6730.00 2

[3, 0, 1, 0, 6]

3.0 false true 1 150

299 8760.00 3

[0, 1, 1, 0, 6]

0.0 true true 1 150

300 8456.67 3

[1, 1, 1, 0, 6]

1.0 true true 1 150

301 8064.00 5

[2, 1, 1, 0, 6]

2.0 true true 1 150

302 8142.25 80

[3, 1, 1, 0, 6]

3.0 true true 1 150

303 7986.92 107

[0, 0, 0, 1, 6]

0.0 false false 2 150

304 250.00 1

[1, 0, 0, 1, 6]

1.0 false false 2 150

305 2060.00 1

[2, 0, 0, 1, 6]

2.0 false false 2 150

306 1440.00 1

[3, 0, 0, 1, 6]

3.0 false false 2 150

307 1150.00 1

[0, 1, 0, 1, 6]

0.0 true false 2 150

308 470.00 1

[1, 1, 0, 1, 6]

1.0 true false 2 150

309 1190.00 1

[2, 1, 0, 1, 6]

2.0 true false 2 150

310 520.00 1

[3, 1, 0, 1, 6]

3.0 true false 2 150

311 1370.00 1

[0, 0, 1, 1, 6]

0.0 false true 2 150

312 -50.00 1

[1, 0, 1, 1, 6]

1.0 false true 2 150

313 7920.00 2

[2, 0, 1, 1, 6]

2.0 false true 2 150

314 8595.00 2

[3, 0, 1, 1, 6]

3.0 false true 2 150

315 6990.00 2

[0, 1, 1, 1, 6]

0.0 true true 2 150

316 8920.00 2

[1, 1, 1, 1, 6]

1.0 true true 2 150

317 8296.67 3

[2, 1, 1, 1, 6]

2.0 true true 2 150

318 8234.17 12

[3, 1, 1, 1, 6]

3.0 true true 2 150

319 8231.43 14

[0, 0, 0, 2, 6]

0.0 false false 3 150

320 1090.00 1

[1, 0, 0, 2, 6]

1.0 false false 3 150

321 1200.00 1

[2, 0, 0, 2, 6]

2.0 false false 3 150

322 1710.00 1

[3, 0, 0, 2, 6]

3.0 false false 3 150

323 1290.00 1

[0, 1, 0, 2, 6]

0.0 true false 3 150

324 -50.00 1

[1, 1, 0, 2, 6]

1.0 true false 3 150

325 1650.00 1

[2, 1, 0, 2, 6]

2.0 true false 3 150

326 510.00 1

[3, 1, 0, 2, 6]

3.0 true false 3 150

327 340.00 1

[0, 0, 1, 2, 6]

0.0 false true 3 150

328 1170.00 1

[1, 0, 1, 2, 6]

1.0 false true 3 150

329 8660.00 2

[2, 0, 1, 2, 6]

2.0 false true 3 150

330 1960.00 1

[3, 0, 1, 2, 6]

3.0 false true 3 150

331 8810.00 2

[0, 1, 1, 2, 6]

0.0 true true 3 150

332 2180.00 1

[1, 1, 1, 2, 6]

1.0 true true 3 150

333 8546.67 3

[2, 1, 1, 2, 6]

2.0 true true 3 150

334 8732.50 4

[3, 1, 1, 2, 6]

3.0 true true 3 150

335 8864.00 5

GridModel has 16 tuples.

nEvals per run336

Overall results: NTupleBanditEA

min = 8467.3

max = 8939.8

ave = 8756.02

sd = 128.10491186686113

se = 40.510330095441404

sum = 87560.2

sumsq = 7.668265602199999E8

n = 10

Total time for experiment: 49467747 ms elapsed

Search space size: 336.0

Search space size = 336.0

Evaluation budget = 336

Samples per point = 1.00

Best index = 277

Best stats:

min = 10090.0

max = 10090.0

ave = 10090.0

sd = NaN

se = NaN

sum = 10090.0

sumsq = 1.018081E8

n = 1

Best solution: [3, 0, 1, 0, 4]

Checking fitness

Running checks: 100

Mean fitness

min = 1660.0

max = 10280.0

ave = 7425.0

sd = 2382.432972548623

se = 238.2432972548623

sum = 742500.0

sumsq = 6.0749852E9

n = 100

Checks complete: 1992407 ms elapsed

Solution: [3, 0, 1, 0, 4]

Search space size: 336.0

Search space size = 336.0

Evaluation budget = 336

Samples per point = 1.00

Best index = 82

Best stats:

min = 10000.0

max = 10000.0

ave = 10000.0

sd = NaN

se = NaN

sum = 10000.0

sumsq = 1.0E8

n = 1

Best solution: [0, 1, 1, 2, 5]

Checking fitness

Running checks: 100

Mean fitness

min = 560.0

max = 10070.0

ave = 7994.8

sd = 1806.026656178774

se = 180.6026656178774

sum = 799480.0

sumsq = 6.7145942E9

n = 100

Checks complete: 247775 ms elapsed

Solution: [0, 1, 1, 2, 5]

Search space size: 336.0

Search space size = 336.0

Evaluation budget = 336

Samples per point = 1.00

Best index = 250

Best stats:

min = 10030.0

max = 10030.0

ave = 10030.0

sd = NaN

se = NaN

sum = 10030.0

sumsq = 1.006009E8

n = 1

Best solution: [2, 1, 1, 2, 5]

Checking fitness

Running checks: 100

Mean fitness

min = 4360.0

max = 10040.0

ave = 8881.2

sd = 1003.8957247954626

se = 100.38957247954626

sum = 888120.0

sumsq = 7.9873442E9

n = 100

Checks complete: 250022 ms elapsed

Solution: [2, 1, 1, 2, 5]

Search space size: 336.0

Search space size = 336.0

Evaluation budget = 336

Samples per point = 1.00

Best index = 109

Best stats:

min = 10020.0

max = 10020.0

ave = 10020.0

sd = NaN

se = NaN

sum = 10020.0

sumsq = 1.004004E8

n = 1

Best solution: [1, 0, 1, 0, 4]

Checking fitness

Running checks: 100

Mean fitness

min = 740.0

max = 10090.0

ave = 6233.6

sd = 2839.778238603227

se = 283.9778238603227

sum = 623360.0

sumsq = 4.6841466E9

n = 100

Checks complete: 2504447 ms elapsed

Solution: [1, 0, 1, 0, 4]

Search space size: 336.0

Search space size = 336.0

Evaluation budget = 336

Samples per point = 1.00

Best index = 81

Best stats:

min = 10300.0

max = 10300.0

ave = 10300.0

sd = NaN

se = NaN

sum = 10300.0

sumsq = 1.0609E8

n = 1

Best solution: [0, 1, 1, 2, 4]

Checking fitness

Running checks: 100

Mean fitness

min = 430.0

max = 10080.0

ave = 5772.0

sd = 2826.415440522543

se = 282.6415440522543

sum = 577200.0

sumsq = 4.1224722E9

n = 100

Checks complete: 142190 ms elapsed

Solution: [0, 1, 1, 2, 4]

Search space size: 336.0

Search space size = 336.0

Evaluation budget = 336

Samples per point = 1.00

Best index = 193

Best stats:

min = 10020.0

max = 10020.0

ave = 10020.0

sd = NaN

se = NaN

sum = 10020.0

sumsq = 1.004004E8

n = 1

Best solution: [2, 0, 1, 0, 4]

Checking fitness

Running checks: 100

Mean fitness

min = -120.0

max = 10210.0

ave = 7233.5

sd = 2889.839524047568

se = 288.9839524047568

sum = 723350.0

sumsq = 6.0591183E9

n = 100

Checks complete: 166842 ms elapsed

Solution: [2, 0, 1, 0, 4]

Search space size: 336.0

Search space size = 336.0

Evaluation budget = 336

Samples per point = 1.00

Best index = 68

Best stats:

min = 10010.0

max = 10010.0

ave = 10010.0

sd = NaN

se = NaN

sum = 10010.0

sumsq = 1.002001E8

n = 1

Best solution: [0, 1, 1, 0, 5]

Checking fitness

Running checks: 100

Mean fitness

min = 220.0

max = 10030.0

ave = 8068.7

sd = 2198.4634923675053

se = 219.84634923675054

sum = 806870.0

sumsq = 6.9888829E9

n = 100

Checks complete: 266528 ms elapsed

Solution: [0, 1, 1, 0, 5]

Search space size: 336.0

Search space size = 336.0

Evaluation budget = 336

Samples per point = 1.00

Best index = 152

Best stats:

min = 9930.0

max = 9930.0

ave = 9930.0

sd = NaN

se = NaN

sum = 9930.0

sumsq = 9.86049E7

n = 1

Best solution: [1, 1, 1, 0, 5]

Checking fitness

Running checks: 100

Mean fitness

min = 930.0

max = 10030.0

ave = 8621.4

sd = 1365.4518029804738

se = 136.54518029804737

sum = 862140.0

sumsq = 7.6174352E9

n = 100

Checks complete: 267089 ms elapsed

Solution: [1, 1, 1, 0, 5]

Search space size: 336.0

Search space size = 336.0

Evaluation budget = 336

Samples per point = 1.00

Best index = 117

Best stats:

min = 10000.0

max = 10000.0

ave = 10000.0

sd = NaN

se = NaN

sum = 10000.0

sumsq = 1.0E8

n = 1

Best solution: [1, 0, 1, 1, 5]

Checking fitness

Running checks: 100

Mean fitness

min = 730.0

max = 10050.0

ave = 8335.9

sd = 1532.3390023691945

se = 153.23390023691945

sum = 833590.0

sumsq = 7.1811811E9

n = 100

Checks complete: 5099726 ms elapsed

Solution: [1, 0, 1, 1, 5]

Search space size: 336.0

Search space size = 336.0

Evaluation budget = 336

Samples per point = 1.00

Best index = 166

Best stats:

min = 10060.0

max = 10060.0

ave = 10060.0

sd = NaN

se = NaN

sum = 10060.0

sumsq = 1.012036E8

n = 1

Best solution: [1, 1, 1, 2, 5]

Checking fitness

Running checks: 100

Mean fitness

min = 1490.0

max = 10030.0

ave = 8589.6

sd = 1507.8233157486163

se = 150.78233157486164

sum = 858960.0

sumsq = 7.6032024E9

n = 100

Checks complete: 250507 ms elapsed

Solution: [1, 1, 1, 2, 5]

nEvals per run336

Overall results: GridSearch

min = 5772.0

max = 8881.2

ave = 7715.57

sd = 1044.6238589931736

se = 330.33906925729957

sum = 77155.7

sumsq = 6.051213553100001E8

n = 10

Total time for experiment: 27216421 ms elapsed

Search space size: 336.0

Ev: planetwar.EvoAgentSearchSpaceAsteroids@7085bdee

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Checking fitness

Running checks: 100

Mean fitness

min = 120.0

max = 6650.0

ave = 1891.8

sd = 1456.6499409621554

se = 145.66499409621554

sum = 189180.0

sumsq = 5.679518E8

n = 100

Checks complete: 118902 ms elapsed

Solution: [1, 1, 0, 1, 1]

Search space size: 336.0

Ev: planetwar.EvoAgentSearchSpaceAsteroids@5700d6b1

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Checking fitness

Running checks: 100

Mean fitness

min = -200.0

max = 7200.0

ave = 2390.9

sd = 1723.1648677988305

se = 172.31648677988306

sum = 239090.0

sumsq = 8.656007E8

n = 100

Checks complete: 138868 ms elapsed

Solution: [1, 1, 0, 0, 1]

Search space size: 336.0

Ev: planetwar.EvoAgentSearchSpaceAsteroids@6fd02e5

Ev: planetwar.EvoAgentSearchSpaceAsteroids@6fd02e5

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Checking fitness

Running checks: 100

/Library/Java/JavaVirtualMachines/jdk-9.0.1.jdk/Contents/Home/bin/java "-javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea\_rt.jar=55327:/Applications/IntelliJ IDEA CE.app/Contents/bin" -Dfile.encoding=UTF-8 -classpath /Users/simon/Documents/GitHub/SimpleAsteroids/out/production/SimpleAsteroids:/Users/simon/Documents/GitHub/SimpleAsteroids/lib/gson-2.2.4.jar:/Users/simon/Documents/GitHub/SimpleAsteroids/lib/gvgai-master.jar planetwar.HyperParamTuningTest

Search space size: 336.0

Action adapter: 12

[0.0 : -5.0 : false, 0.0 : 0.0 : false, 0.0 : 5.0 : false, 2.0 : -5.0 : false, 2.0 : 0.0 : false, 2.0 : 5.0 : false, 0.0 : -5.0 : true, 0.0 : 0.0 : true, 0.0 : 5.0 : true, 2.0 : -5.0 : true, 2.0 : 0.0 : true, 2.0 : 5.0 : true]

Checking fitness

Running checks: 100

Mean fitness

min = 680.0

max = 10430.0

ave = 8967.8

sd = 1209.5291512306708

se = 120.95291512306707

sum = 896780.0

sumsq = 8.1869768E9

n = 100

Checks complete: 265895 ms elapsed

Solution: [2, 1, 1, 2, 5]

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 240.0

max = 9950.0

ave = 8017.5

sd = 1244.863689751053

se = 124.48636897510531

sum = 801750.0

sumsq = 6.5814495E9

n = 100

Checks complete: 4143201 ms elapsed

Solution: [2, 1, 1, 0, 6]

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 1640.0

max = 10070.0

ave = 8933.3

sd = 1321.936179483065

se = 132.1936179483065

sum = 893330.0

sumsq = 8.1533889E9

n = 100

Checks complete: 4214907 ms elapsed

Solution: [2, 1, 1, 2, 5]

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 3790.0

max = 10060.0

ave = 8894.8

sd = 1034.4114414985218

se = 103.44114414985218

sum = 889480.0

sumsq = 8.0176774E9

n = 100

Checks complete: 5799214 ms elapsed

Solution: [3, 1, 1, 0, 5]

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 760.0

max = 9980.0

ave = 8280.2

sd = 1540.725907886378

se = 154.0725907886378

sum = 828020.0

sumsq = 7.091181E9

n = 100

Checks complete: 3986540 ms elapsed

Solution: [3, 1, 1, 1, 6]

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 630.0

max = 9940.0

ave = 8271.6

sd = 1390.0539339874333

se = 139.00539339874334

sum = 827160.0

sumsq = 7.0332294E9

n = 100

Checks complete: 292320 ms elapsed

Solution: [2, 1, 1, 1, 6]

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 570.0

max = 10040.0

ave = 8604.4

sd = 1524.0803287507022

se = 152.4080328750702

sum = 860440.0

sumsq = 7.6335292E9

n = 100

Checks complete: 309994 ms elapsed

Solution: [1, 1, 1, 1, 5]

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 5730.0

max = 10020.0

ave = 8367.5

sd = 982.3013331411645

se = 98.23013331411644

sum = 836750.0

sumsq = 7.0970323E9

n = 100

Checks complete: 302671 ms elapsed

Solution: [3, 1, 1, 1, 6]

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 1370.0

max = 10050.0

ave = 8823.7

sd = 1574.0250501773596

se = 157.40250501773596

sum = 882370.0

sumsq = 8.0310461E9

n = 100

Checks complete: 239358 ms elapsed

Solution: [2, 1, 1, 2, 5]

Search space size: 336.0

Checking fitness

Running checks: 100

Mean fitness

min = 3550.0

max = 9970.0

ave = 8227.1

sd = 1073.8285089653127

se = 107.38285089653127

sum = 822710.0

sumsq = 6.8826751E9

n = 100

Checks complete: 267968 ms elapsed

Solution: [3, 1, 1, 0, 6]

nEvals per run336

Overall results: SlidingMeanEDA

min = 8017.5

max = 8967.8

ave = 8538.789999999999

sd = 347.75513240083967

se = 109.96982864000722

sum = 85387.9

sumsq = 7.3019774933E8

n = 10

Total time for experiment: 51601105 ms elapsed

Process finished with exit code 0