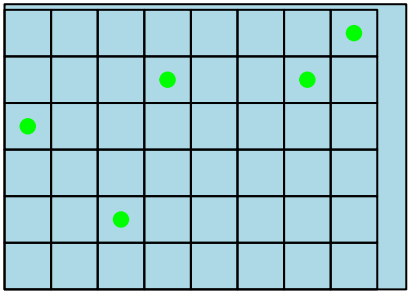
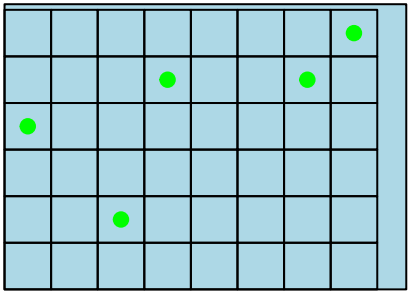
1 Round
Best Energy Output: 12077.04 W/
Efficiency: 100 %

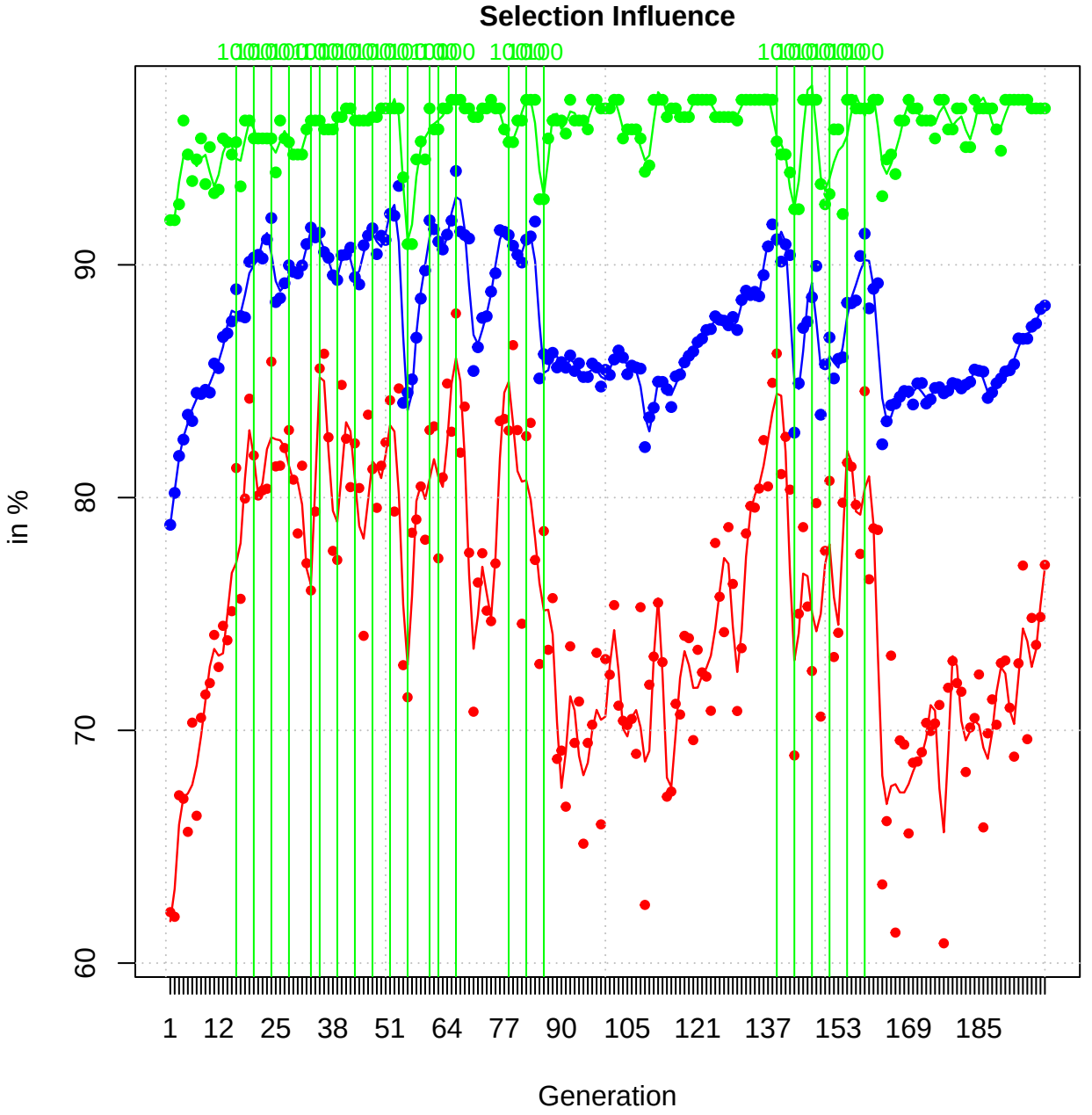


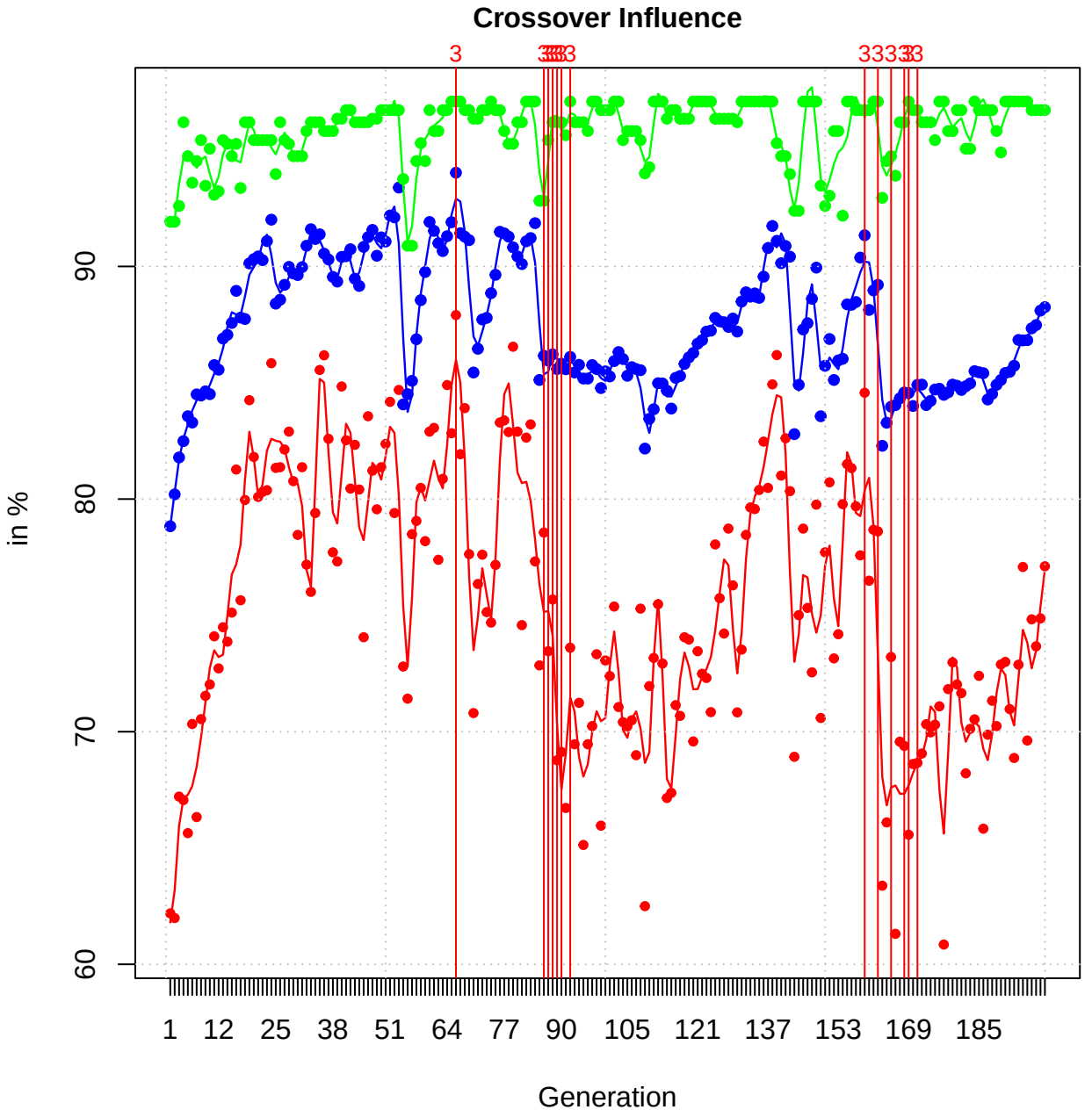
Number of turbines: 5

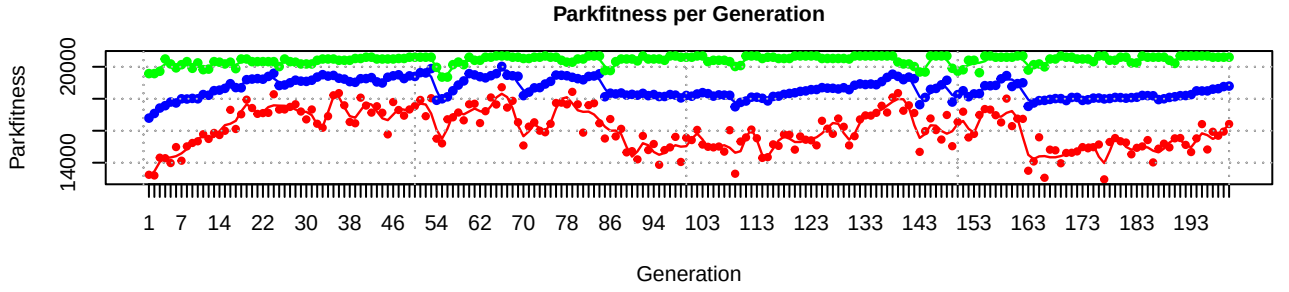
1 Round
Best Efficiency Output: 12077.04 W
Efficiency: 100 %

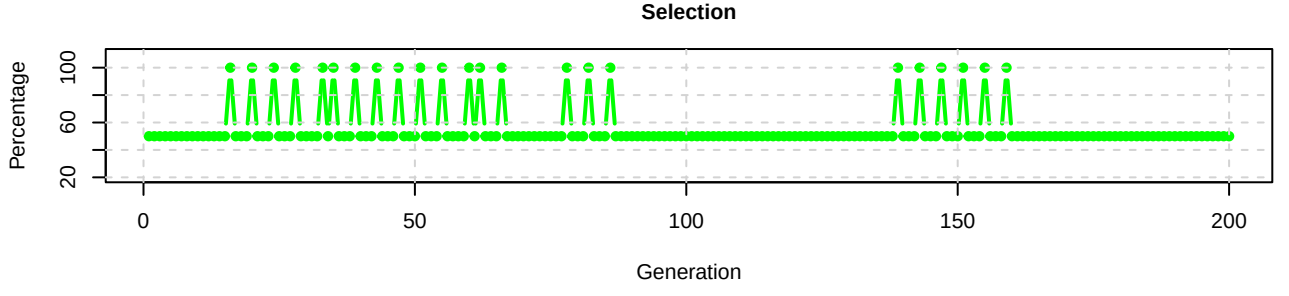


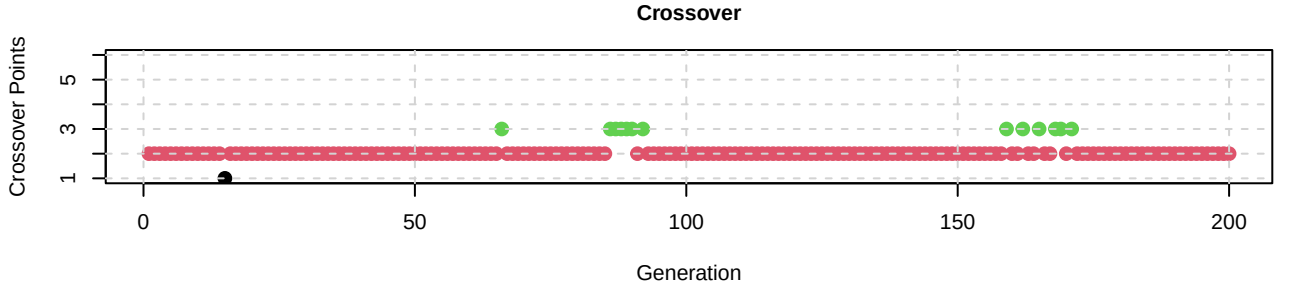
Number of turbines: 5

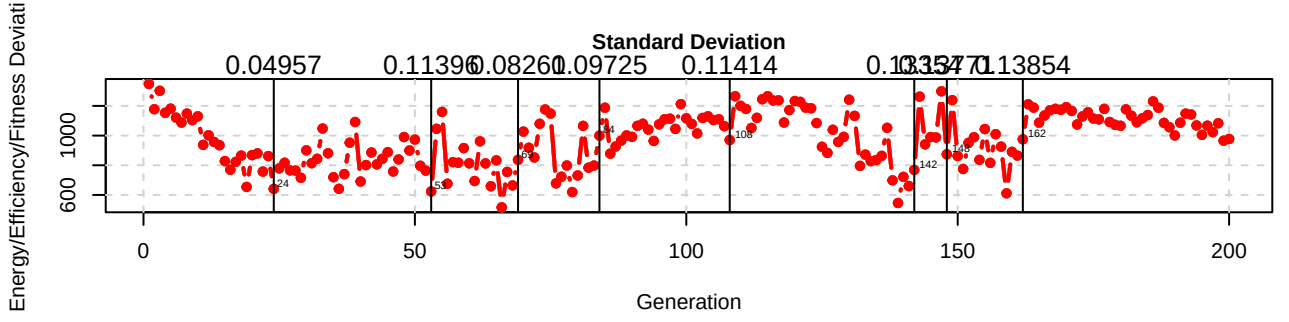

Selection Influence
in %
60
70
80
90
1
12
25
38
51
64
77
90
105
121
137
153
169
185
Generation


Crossover Influence
3
3333
3333
in %
60
70
80
90
1
12
25
38
51
64
77
90
105
121
137
153
169
185
Generation

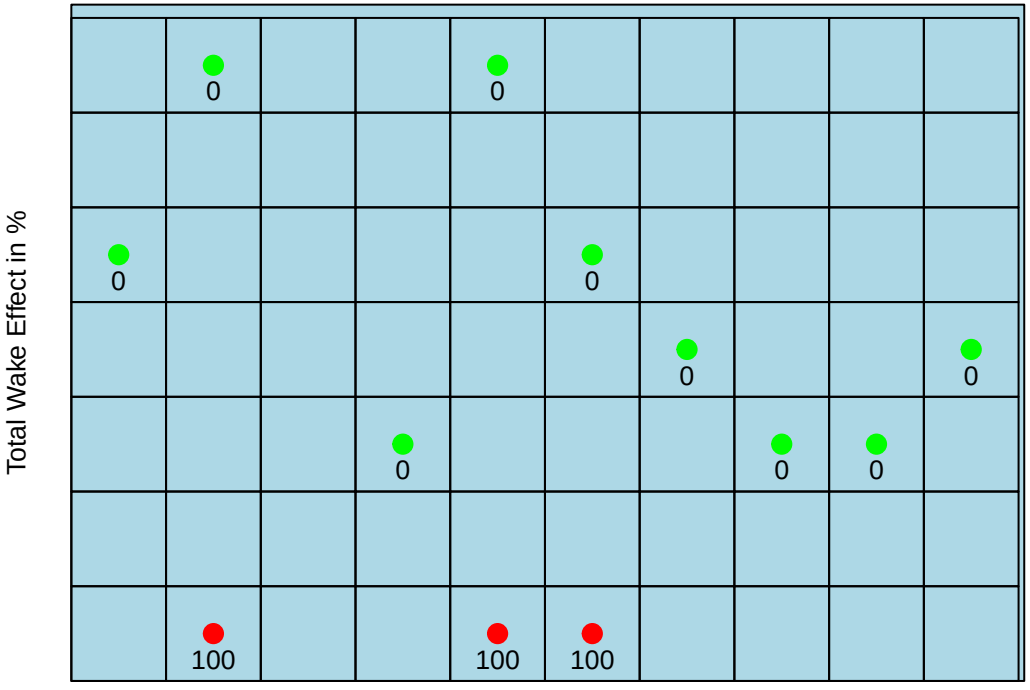

Parkfitness per Generation
Parkfitness
14000
20000
1 7 14 22 30 38 46 54 62 70 78 86 94 103 113 123 133 143 153 163 173 183 193
Generation


Selection
Percentage
20
60
100
0 50 100 150 200
Generation


Crossover
Crossover Points
1
3
5
0 50 100 150 200
Generation

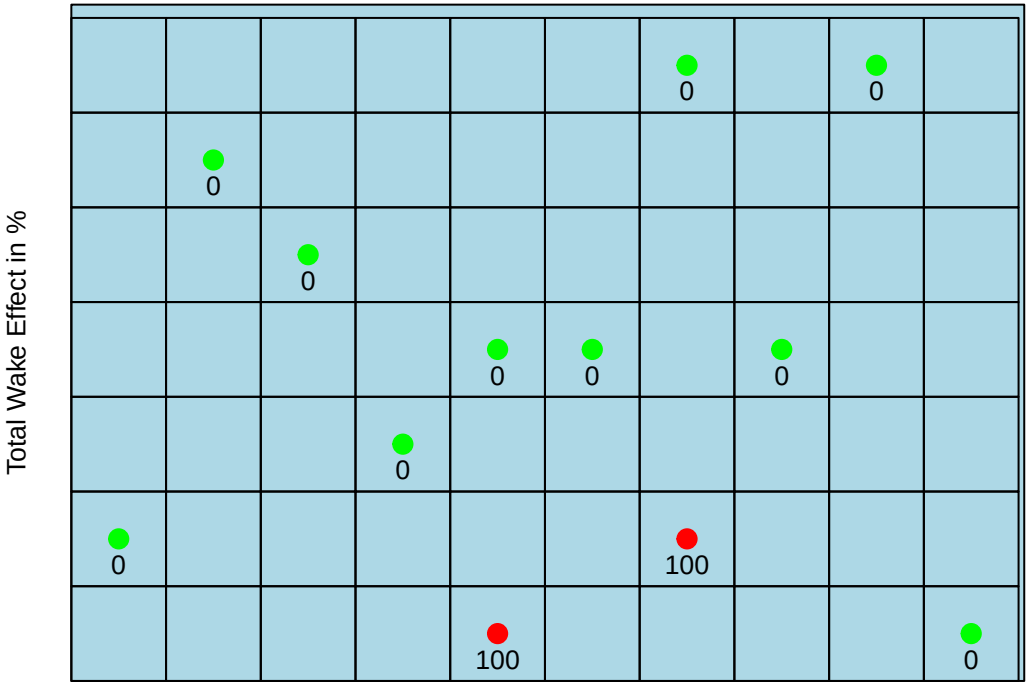

Standard Deviation
0.04957
0.11396
0.08260
0.09725
0.11414
0.11354
0.13347
0.13854
Energy/Efficiency/Fitness Deviati
600
1000
0 50 100 150 200
Generation

4 Best Energy Windfarm
Energy Output 20175.57 kW
Efficiency: 94.74 %



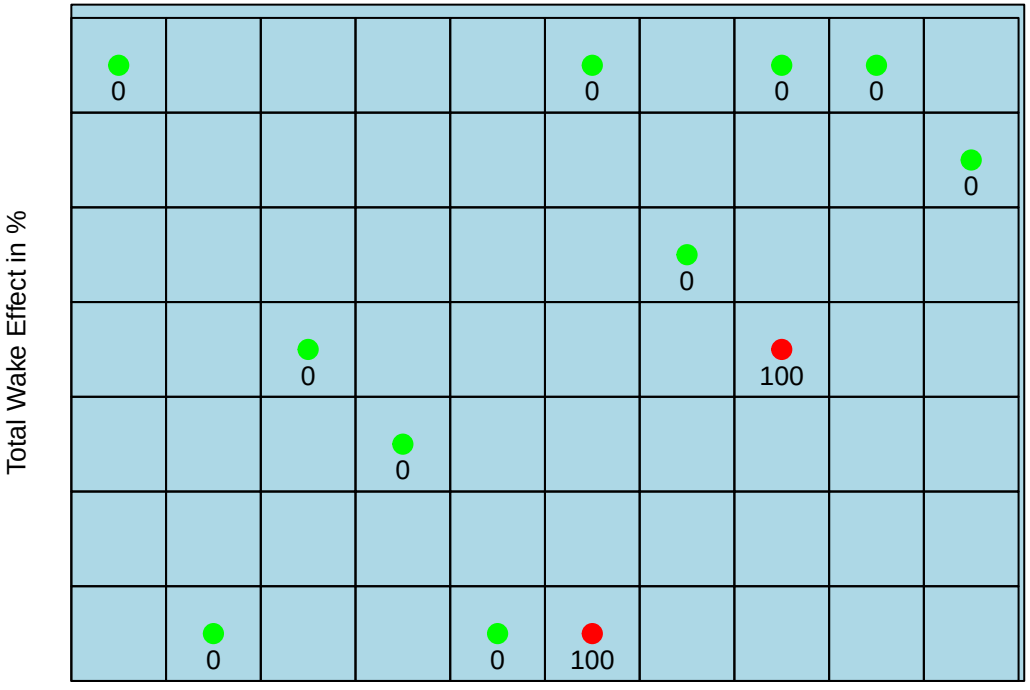
minimal Distance 150
mean Distance 688.69

3 Best Energy Windfarm
Energy Output 20242.06 kW
Efficiency: 95.06 %



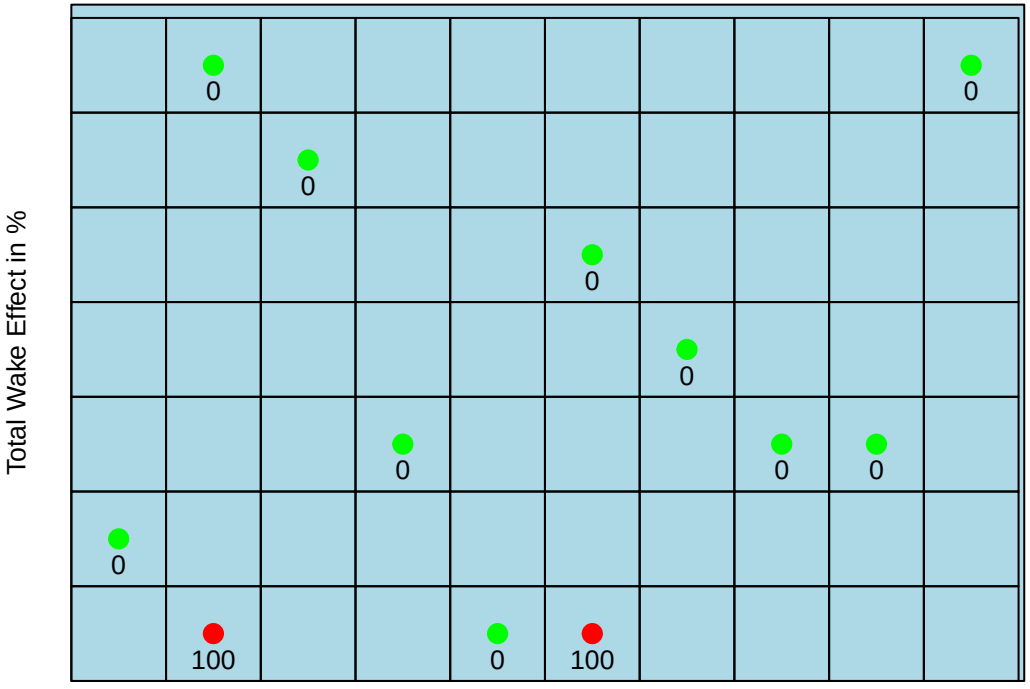
minimal Distance 150
mean Distance 680.14

2 Best Energy Windfarm
Energy Output 20321.16 kW
Efficiency: 95.43 %



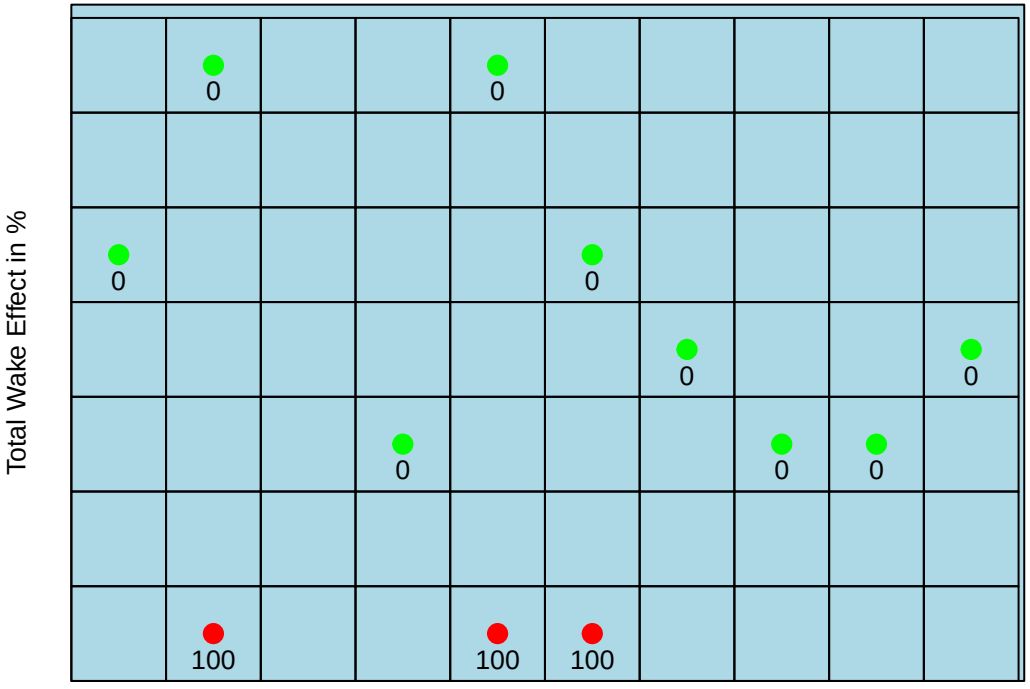
minimal Distance 150
mean Distance 726.9

1 Best Energy Windfarm
Energy Output 20485.03 kW
Efficiency: 96.2 %



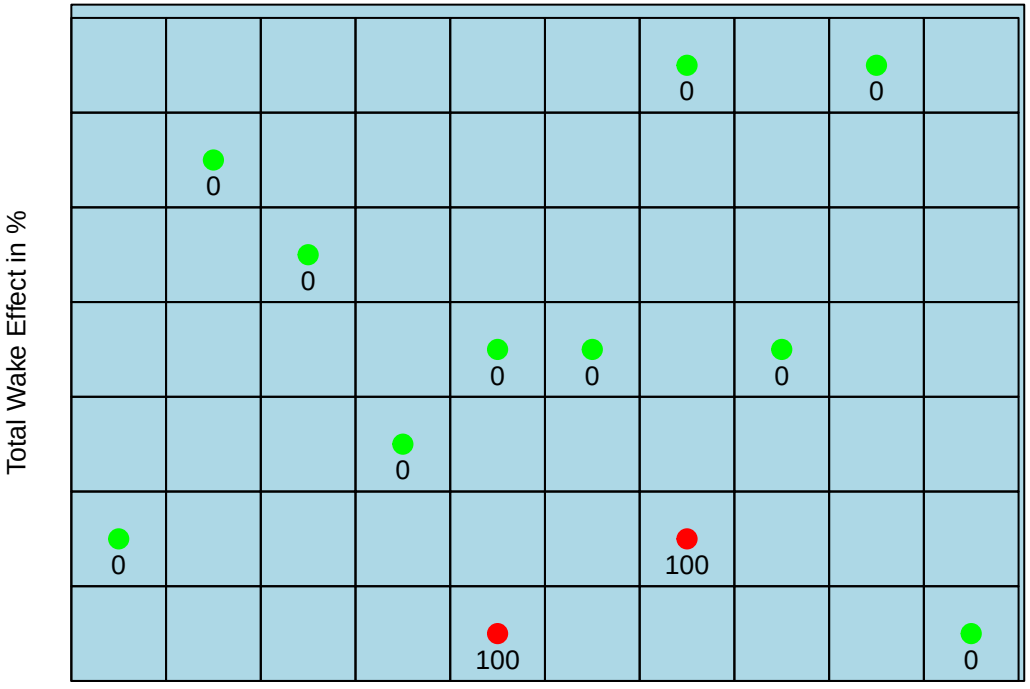
minimal Distance 150
mean Distance 714.72

4 Best Efficiency Windfarm
Energy Output 20175.57 kW
Efficiency: 94.74 %



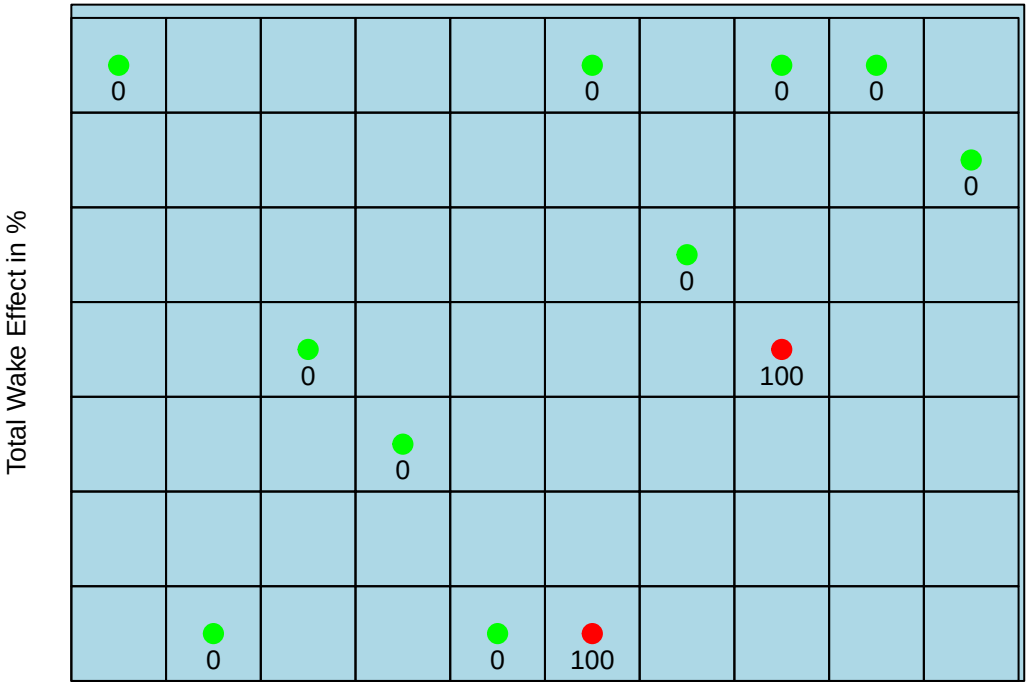
minimal Distance 150
mean Distance 688.69

3 Best Efficiency Windfarm
Energy Output 20242.06 kW
Efficiency: 95.06 %



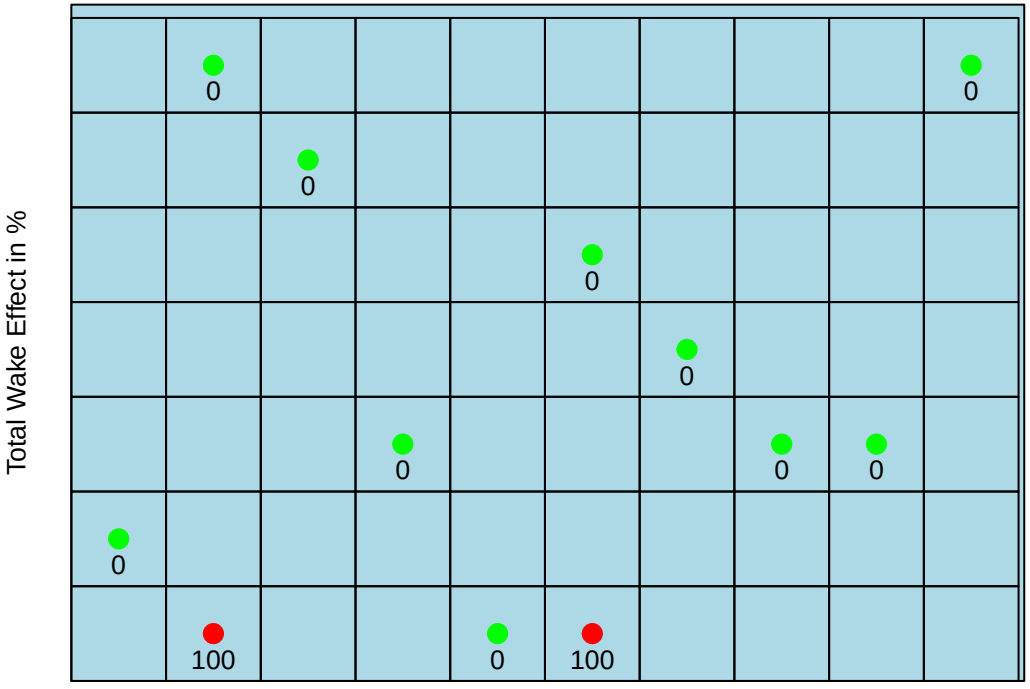
minimal Distance 150
mean Distance 680.14

2 Best Efficiency Windfarm
Energy Output 20321.16 kW
Efficiency: 95.43 %



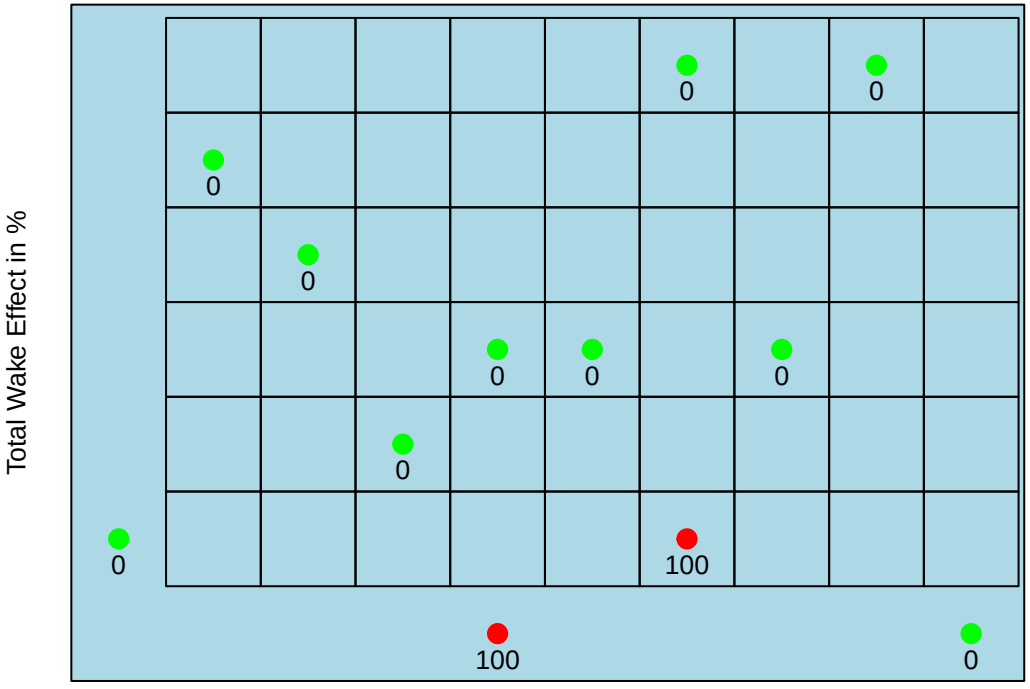
minimal Distance 150
mean Distance 726.9

1 Best Efficiency Windfarm
Energy Output 20485.03 kW
Efficiency: 96.2 %



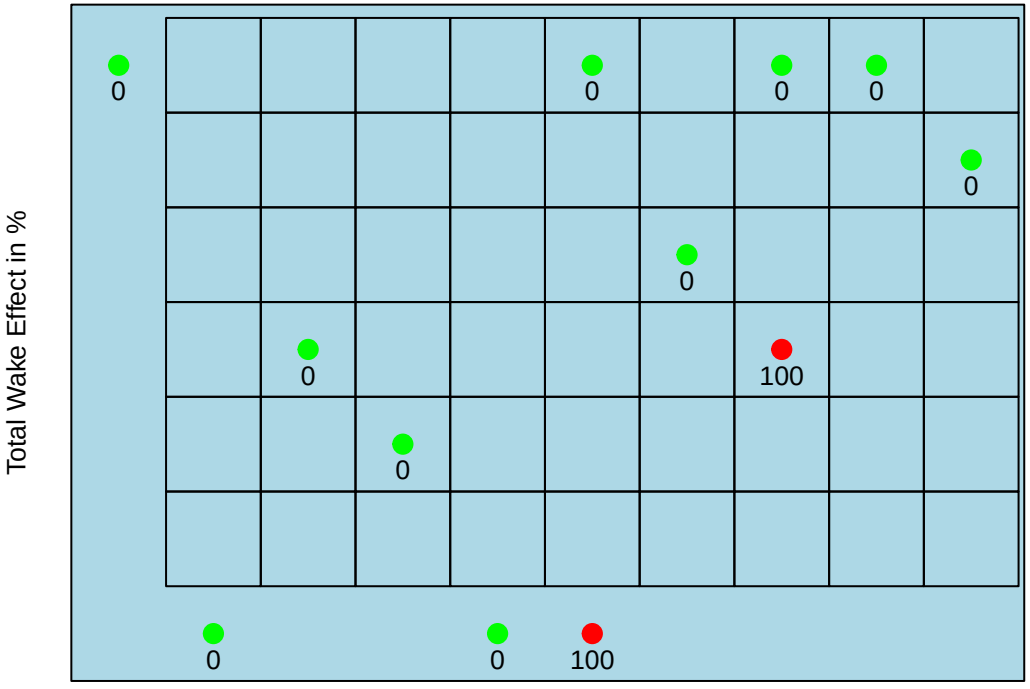
minimal Distance 150
mean Distance 714.72

3 Best Energy Windfarm
Energy Output 20242.06 kW
Efficiency: 95.06 %



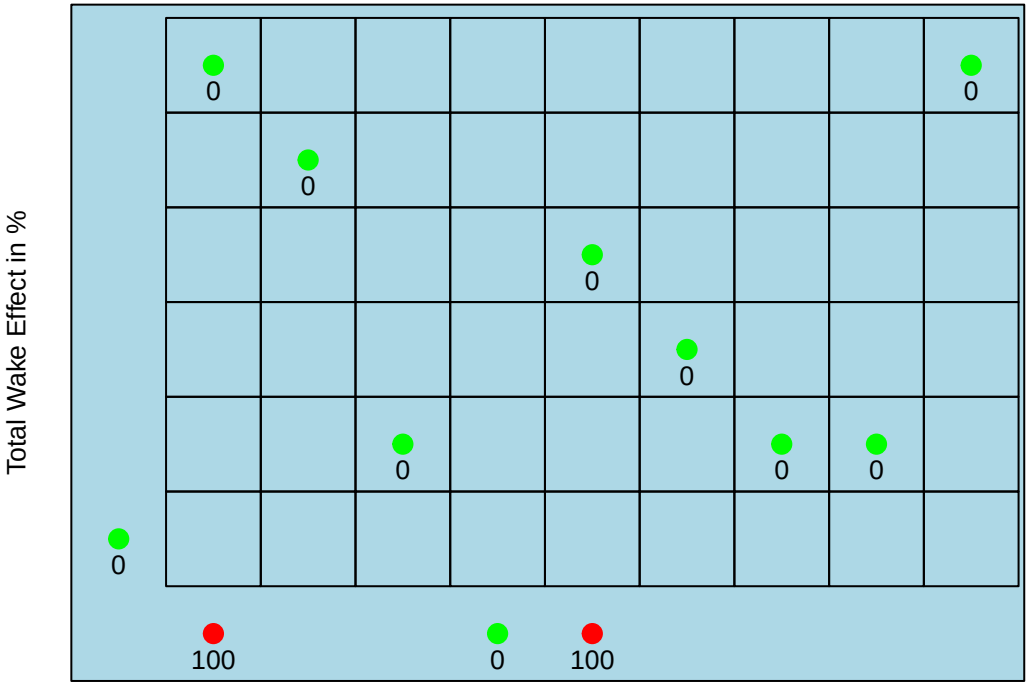
minimal Distance 150
mean Distance 680.14

2 Best Energy Windfarm
Energy Output 20321.16 kW
Efficiency: 95.43 %



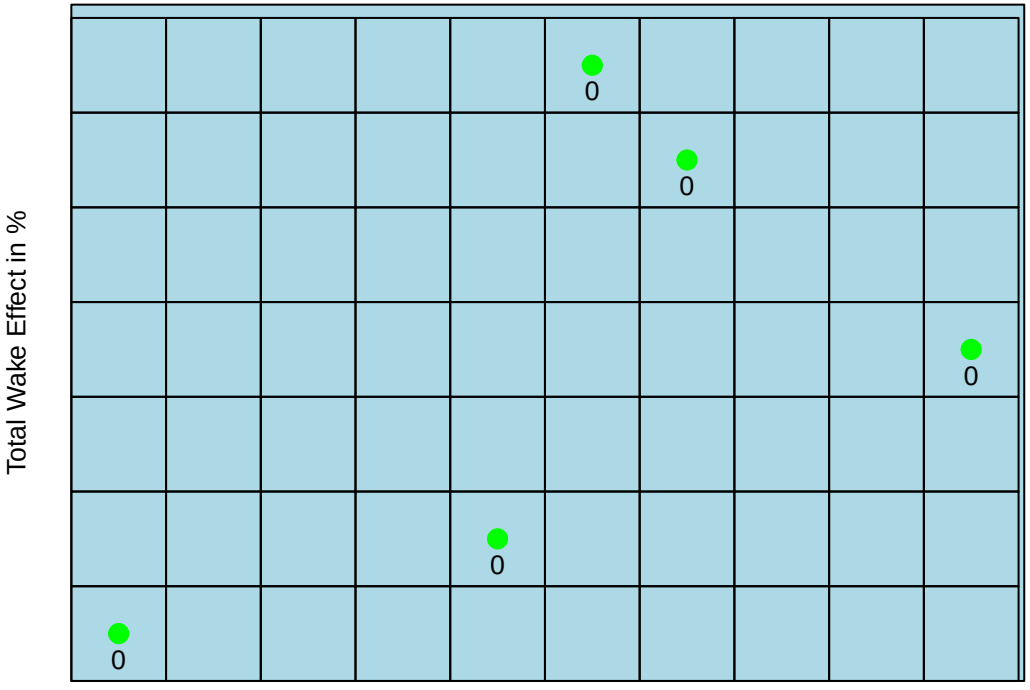
minimal Distance 150
mean Distance 726.9

1 Best Energy Windfarm
Energy Output 20485.03 kW
Efficiency: 96.2 %



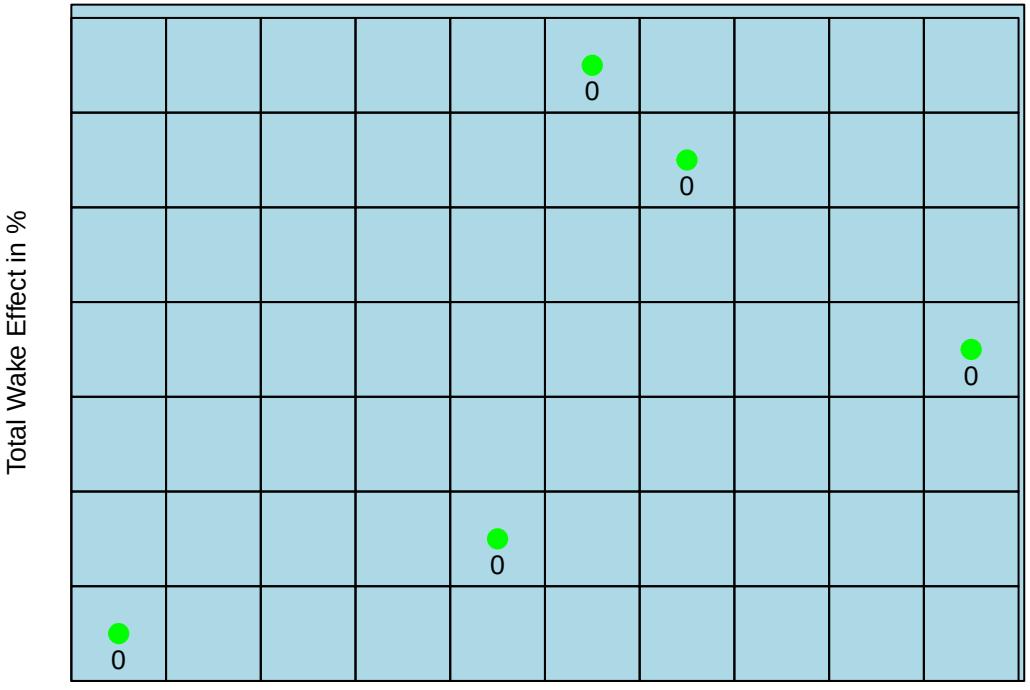
minimal Distance 150
mean Distance 714.72

1 Best Energy Windfarm
Energy Output 8872.93 kW
Efficiency: 100 %



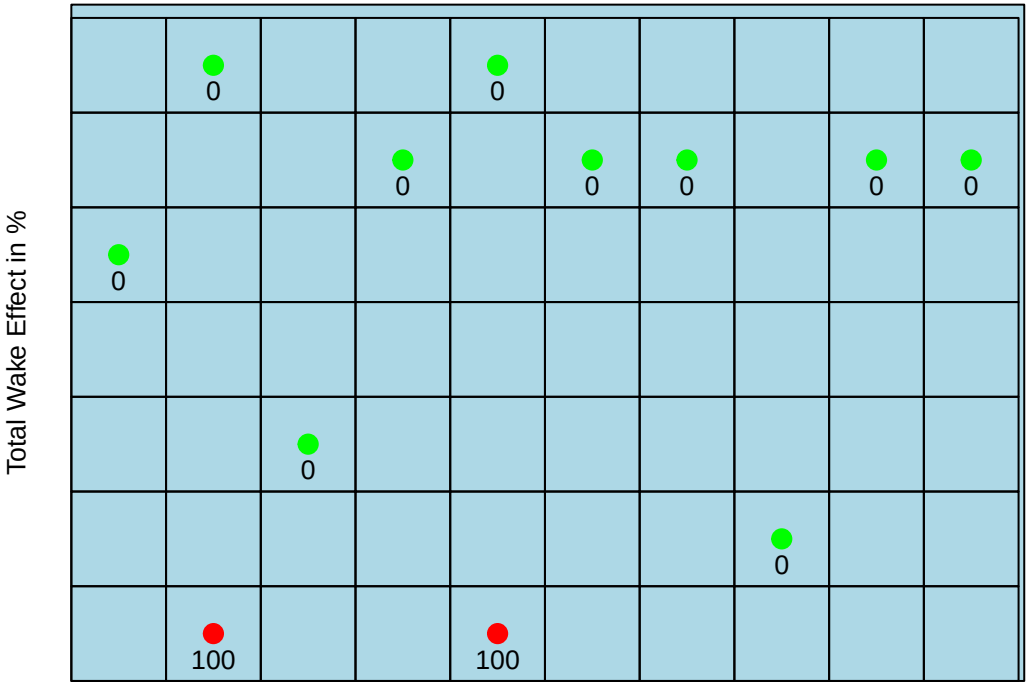
minimal Distance 212.13
mean Distance 813.1

1 Best Efficiency Windfarm
Energy Output 8872.93 kW
Efficiency: 100 %



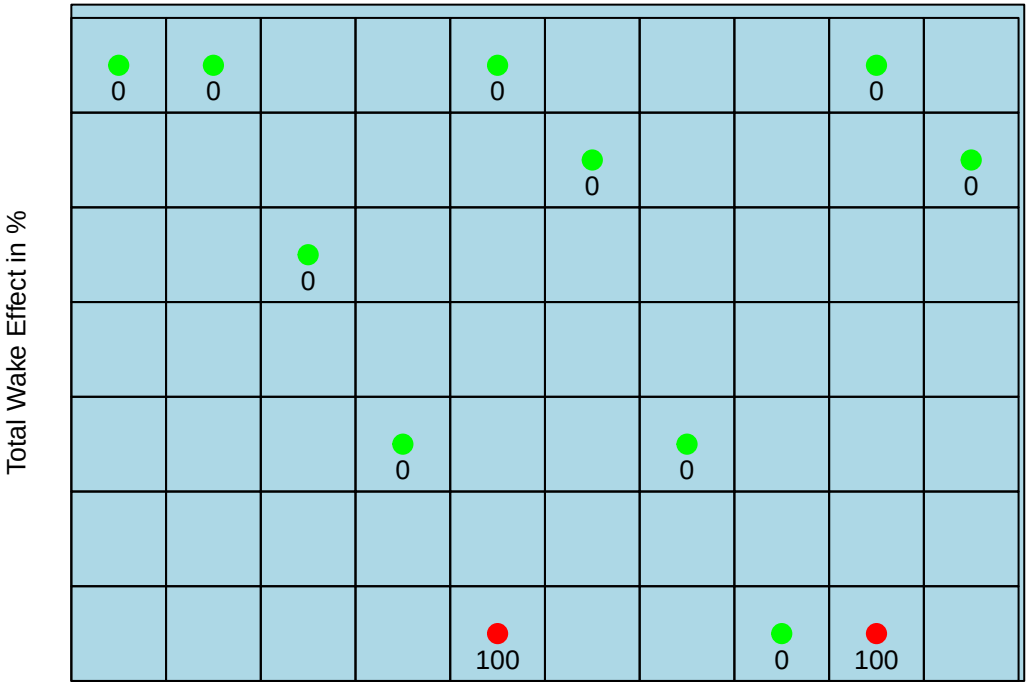
minimal Distance 212.13
mean Distance 813.1

3 Best Energy Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



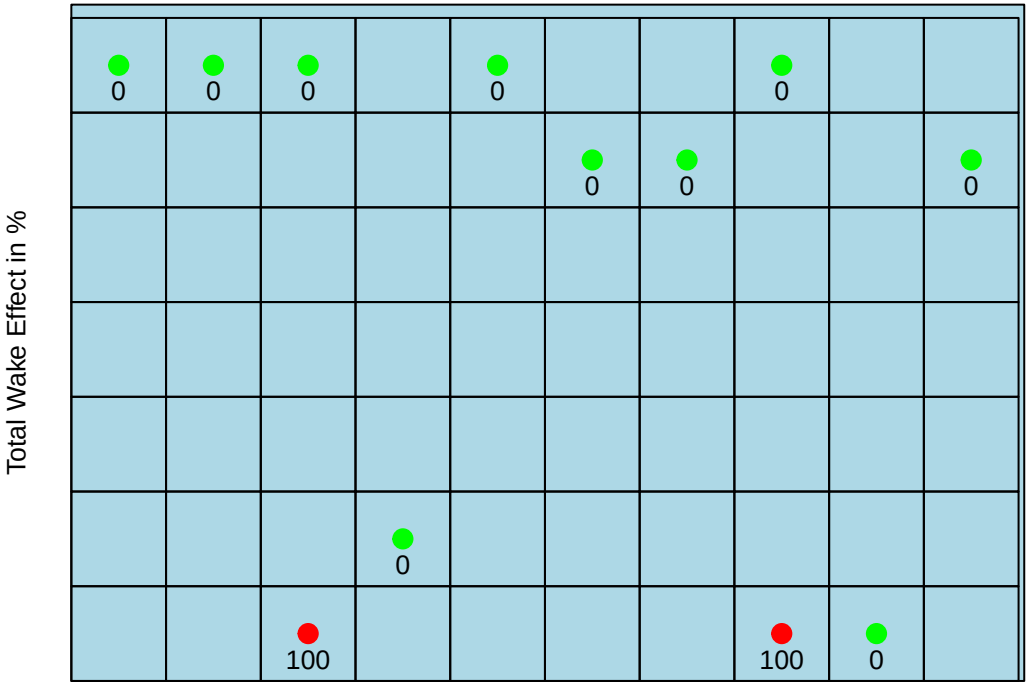
minimal Distance 150
mean Distance 722.42

2 Best Energy Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



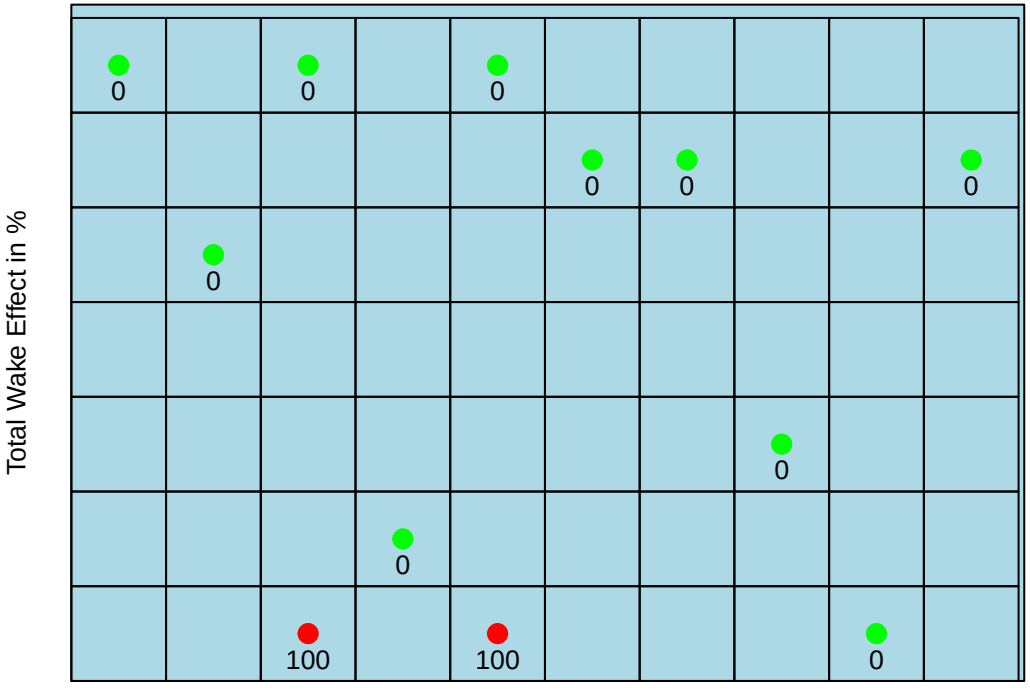
minimal Distance 150
mean Distance 756.51

1 Best Energy Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



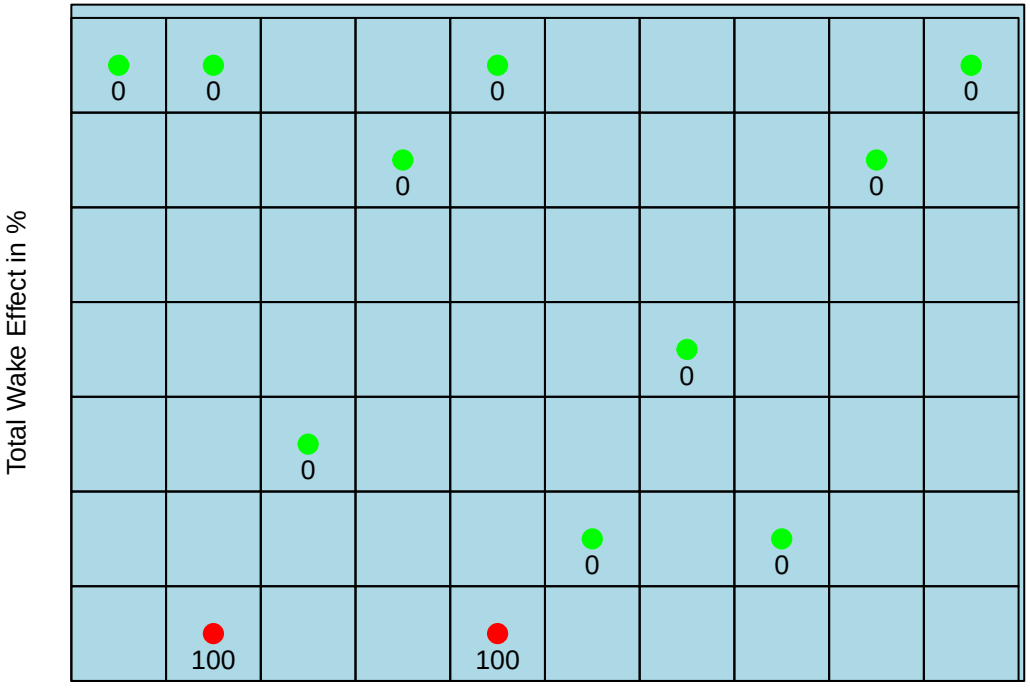
minimal Distance 150
mean Distance 773.72

5 Best Energy Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



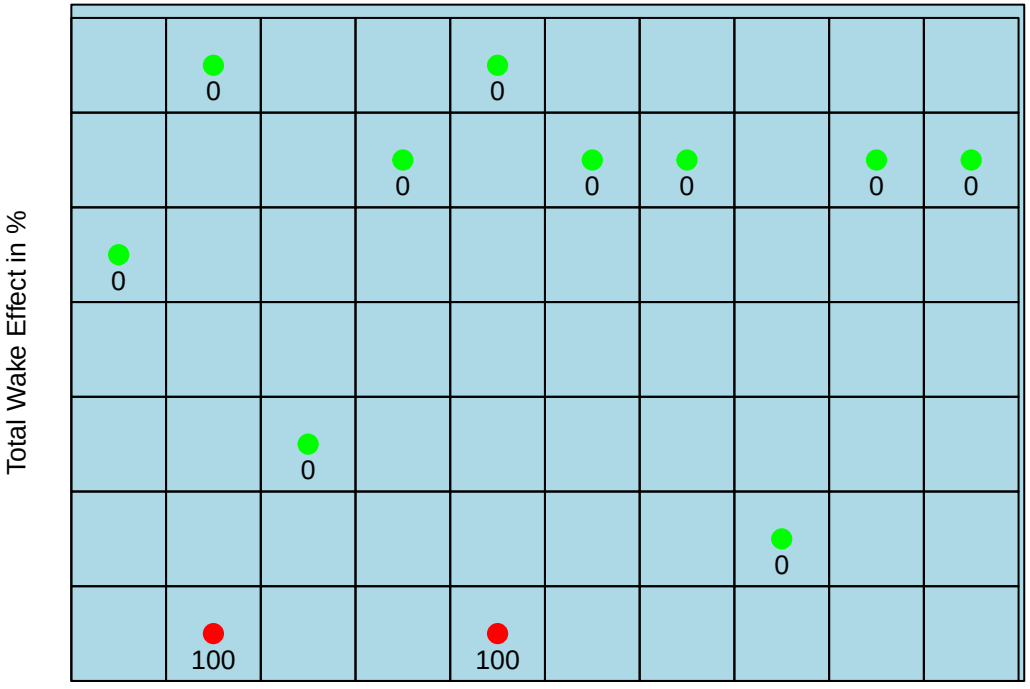
minimal Distance 150
mean Distance 745.99

4 Best Energy Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



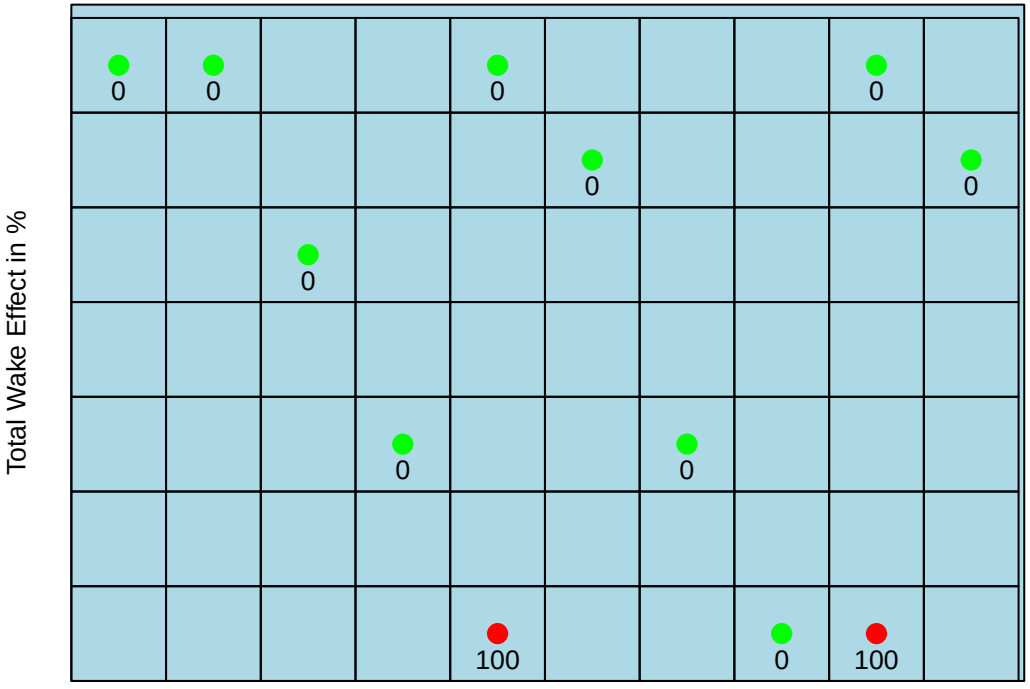
minimal Distance 150
mean Distance 753.17

3 Best Energy Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



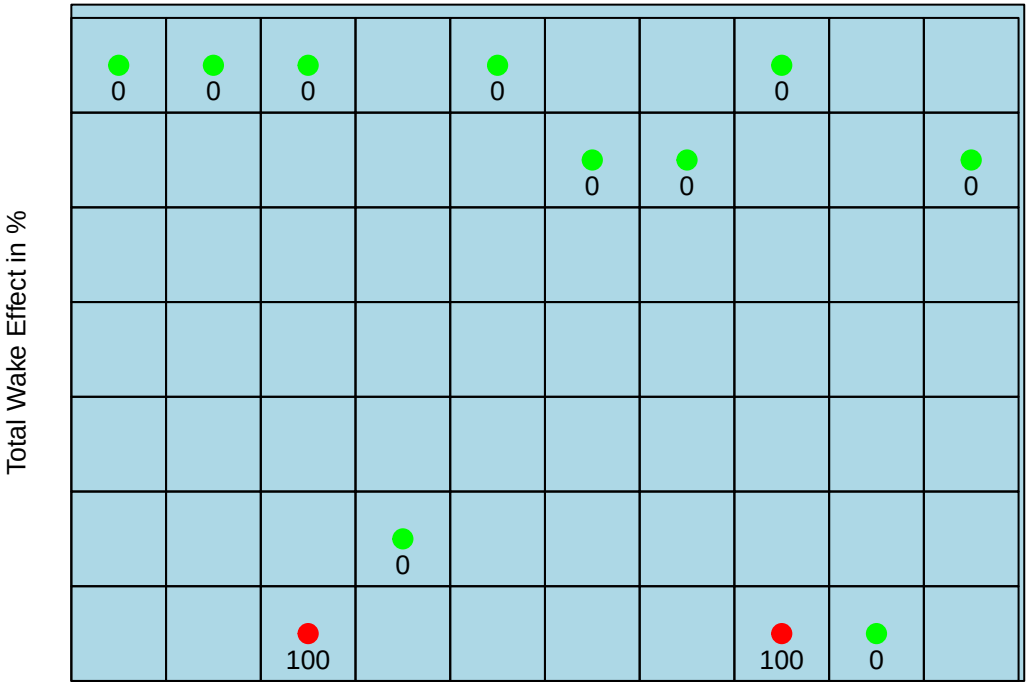
minimal Distance 150
mean Distance 722.42

2 Best Energy Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



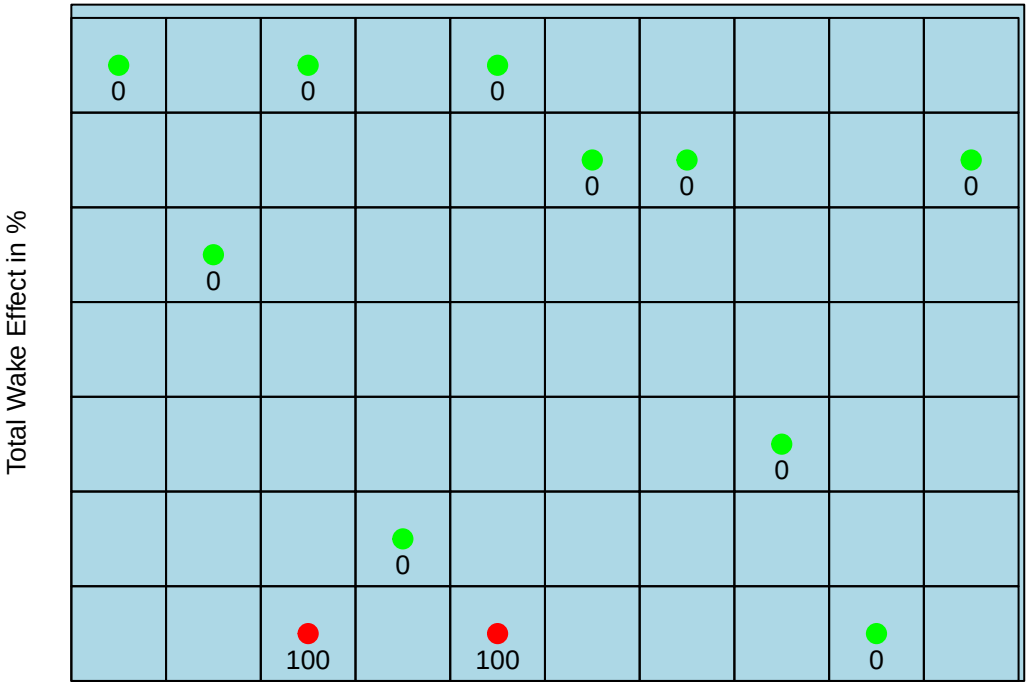
minimal Distance 150
mean Distance 756.51

1 Best Energy Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



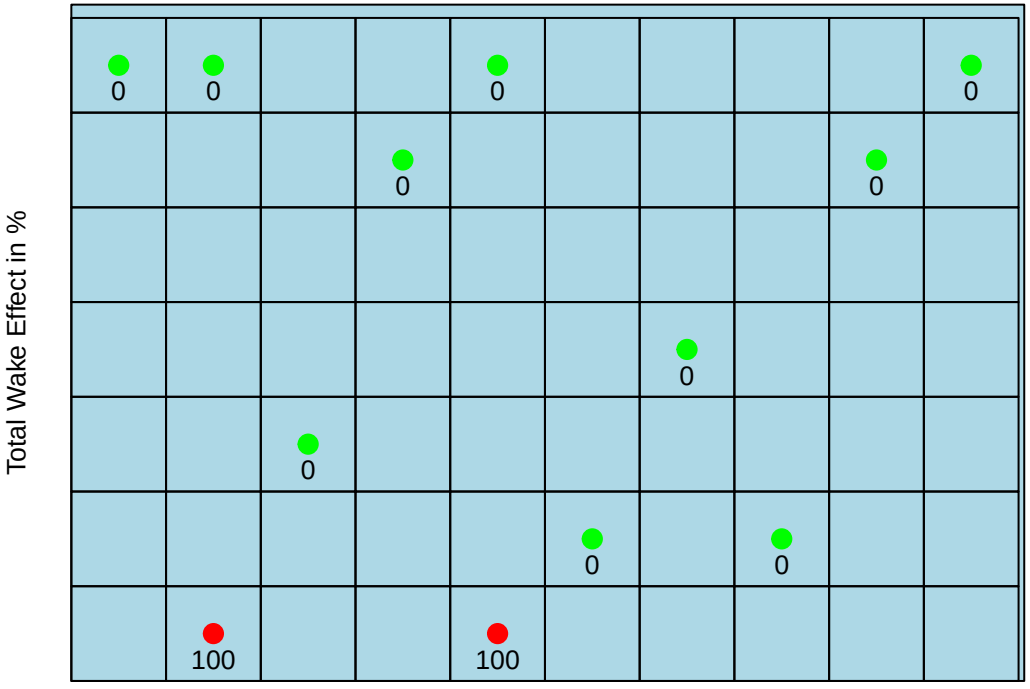
minimal Distance 150
mean Distance 773.72

5 Best Energy Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



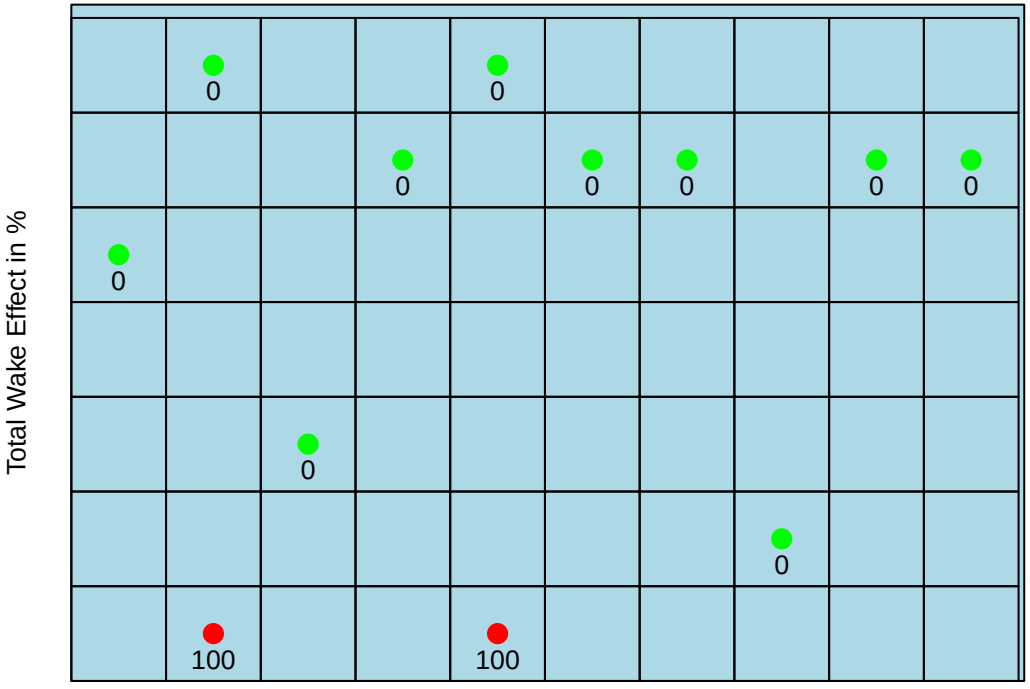
minimal Distance 150
mean Distance 745.99

4 Best Energy Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



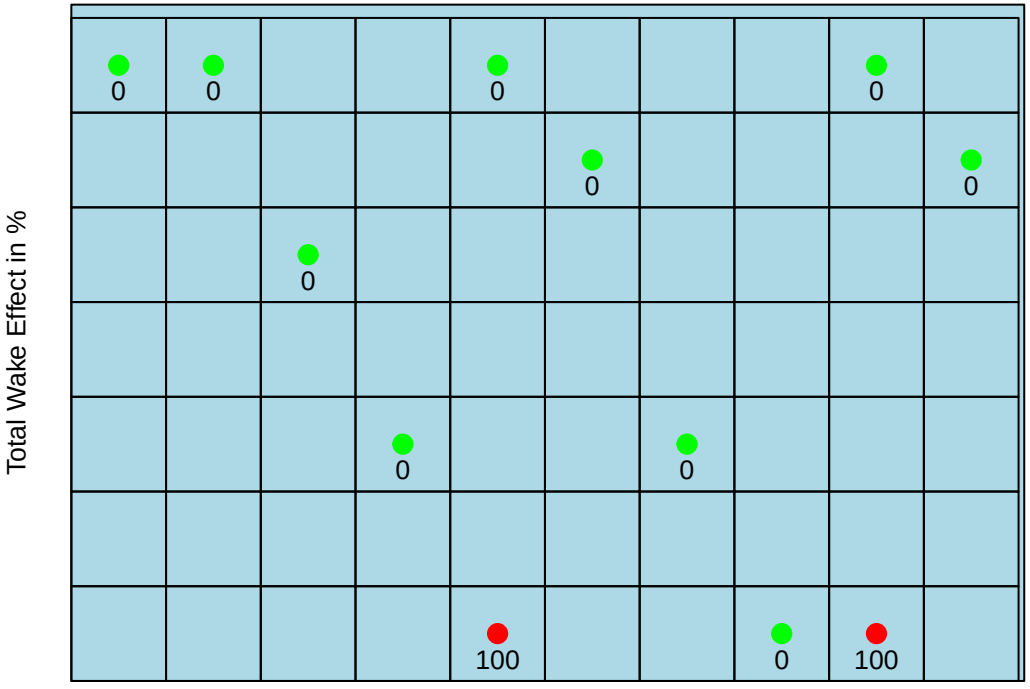
minimal Distance 150
mean Distance 753.17

3 Best Energy Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



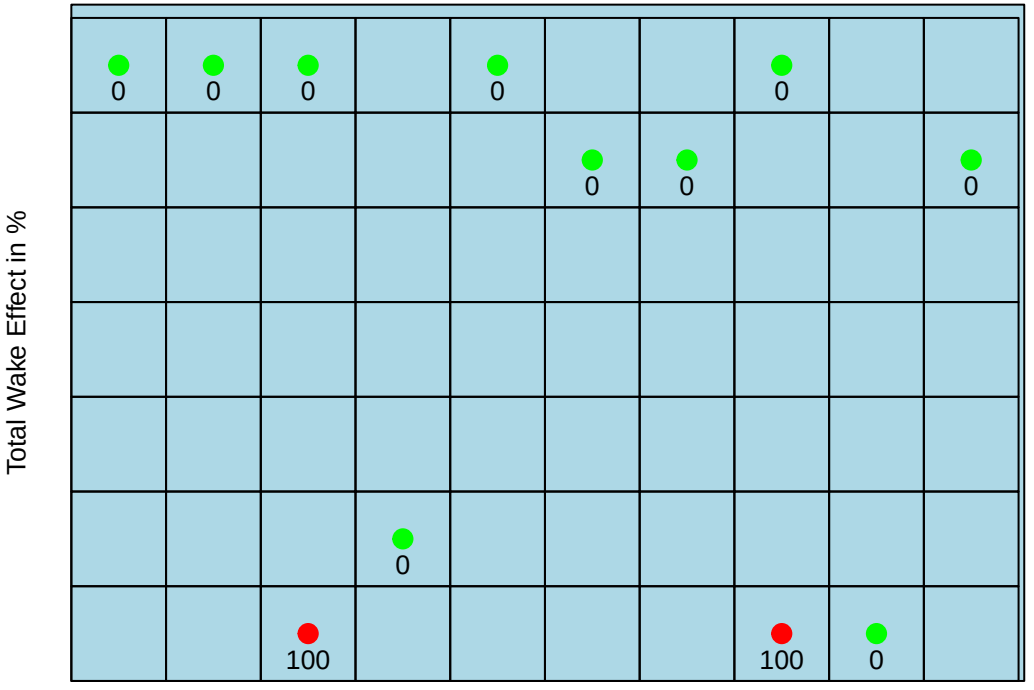
minimal Distance 150
mean Distance 722.42

2 Best Energy Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



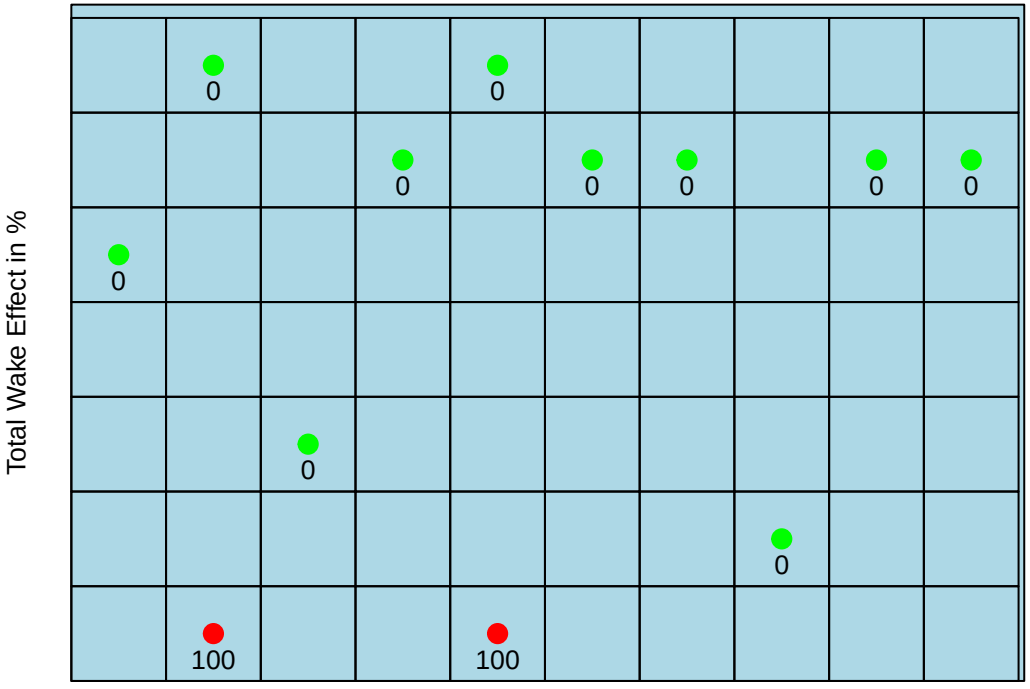
minimal Distance 150
mean Distance 756.51

1 Best Energy Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



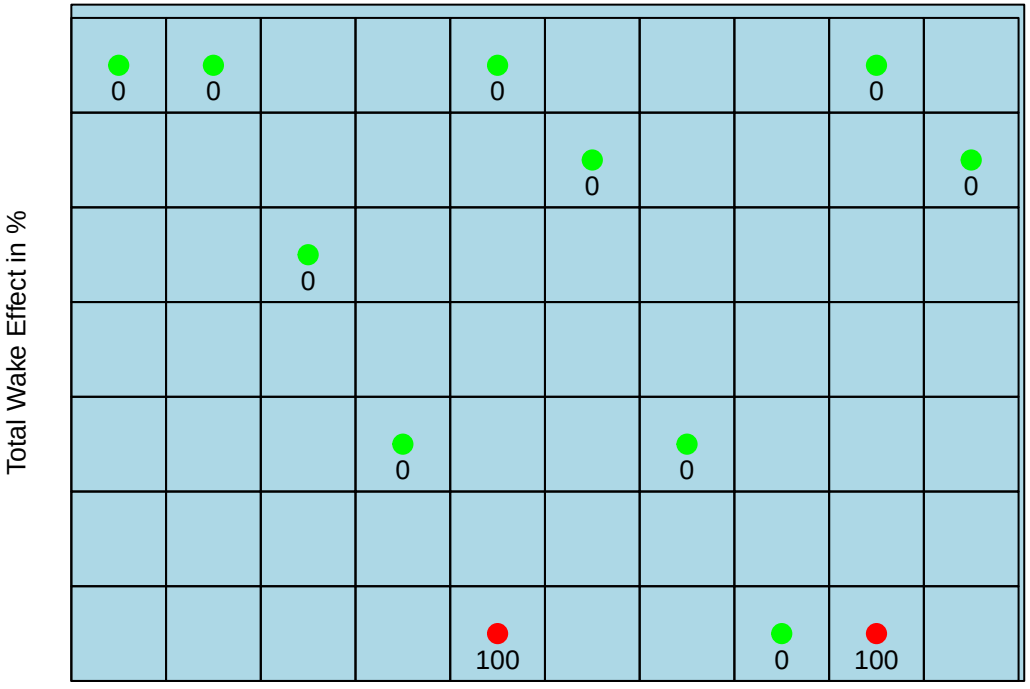
minimal Distance 150
mean Distance 773.72

3 Best Efficiency Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



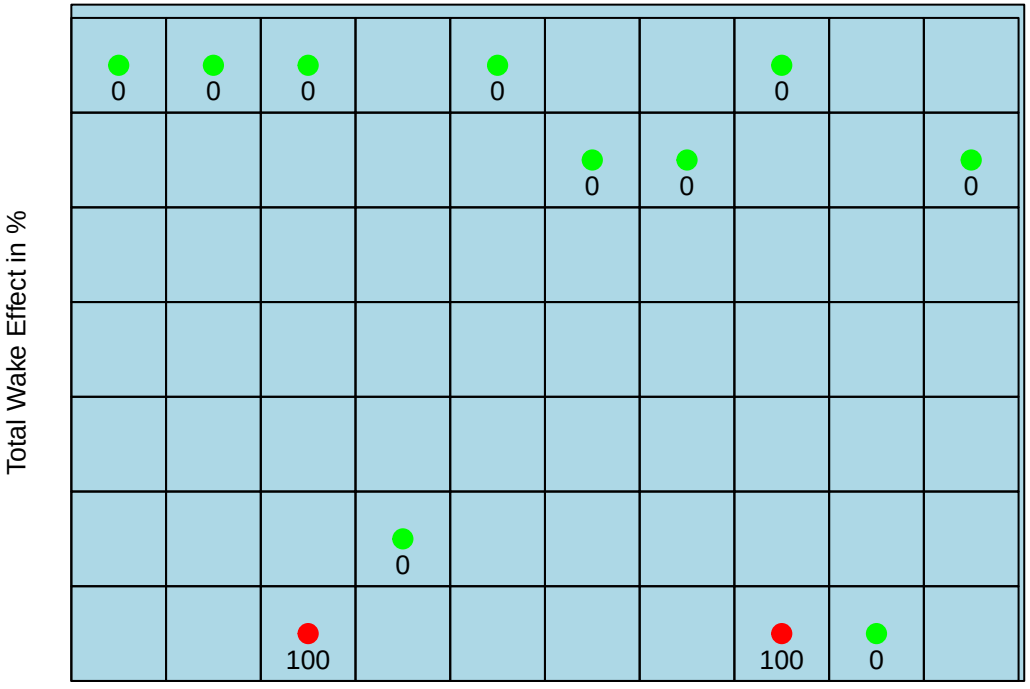
minimal Distance 150
mean Distance 722.42

2 Best Efficiency Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %



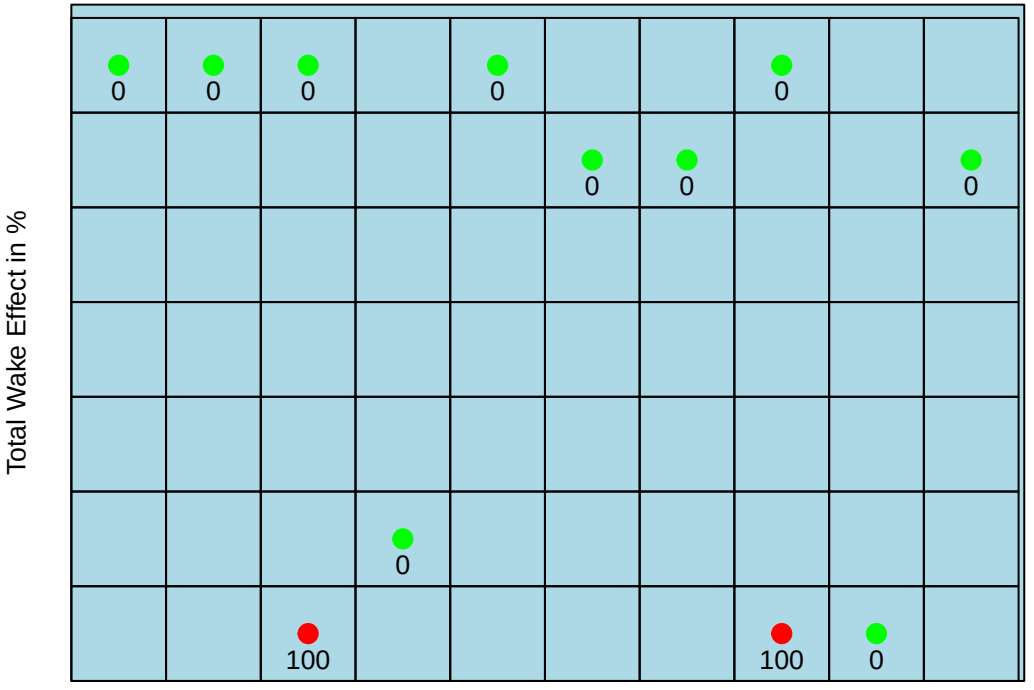
minimal Distance 150
mean Distance 756.51

1 Best Efficiency Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %

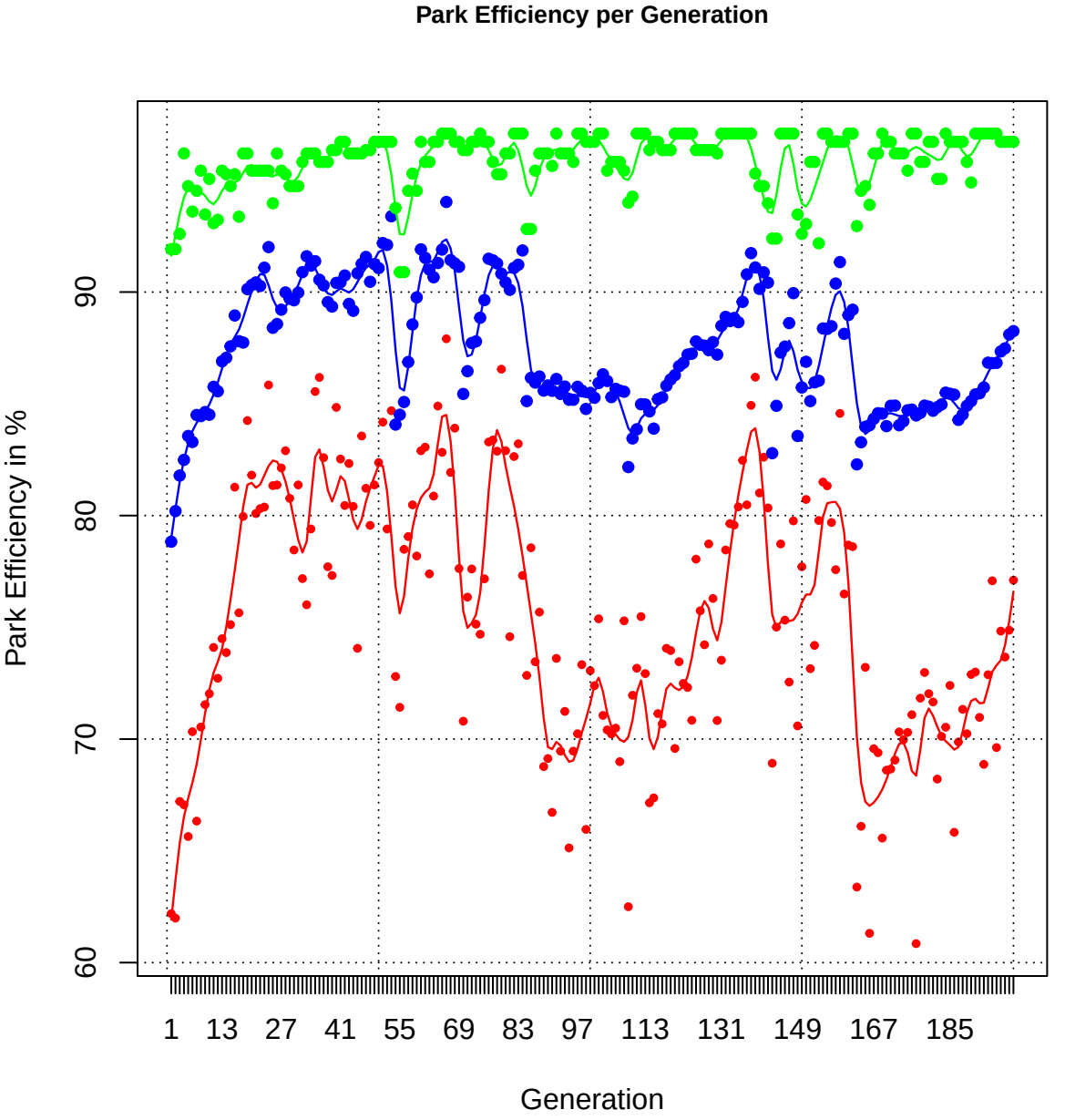


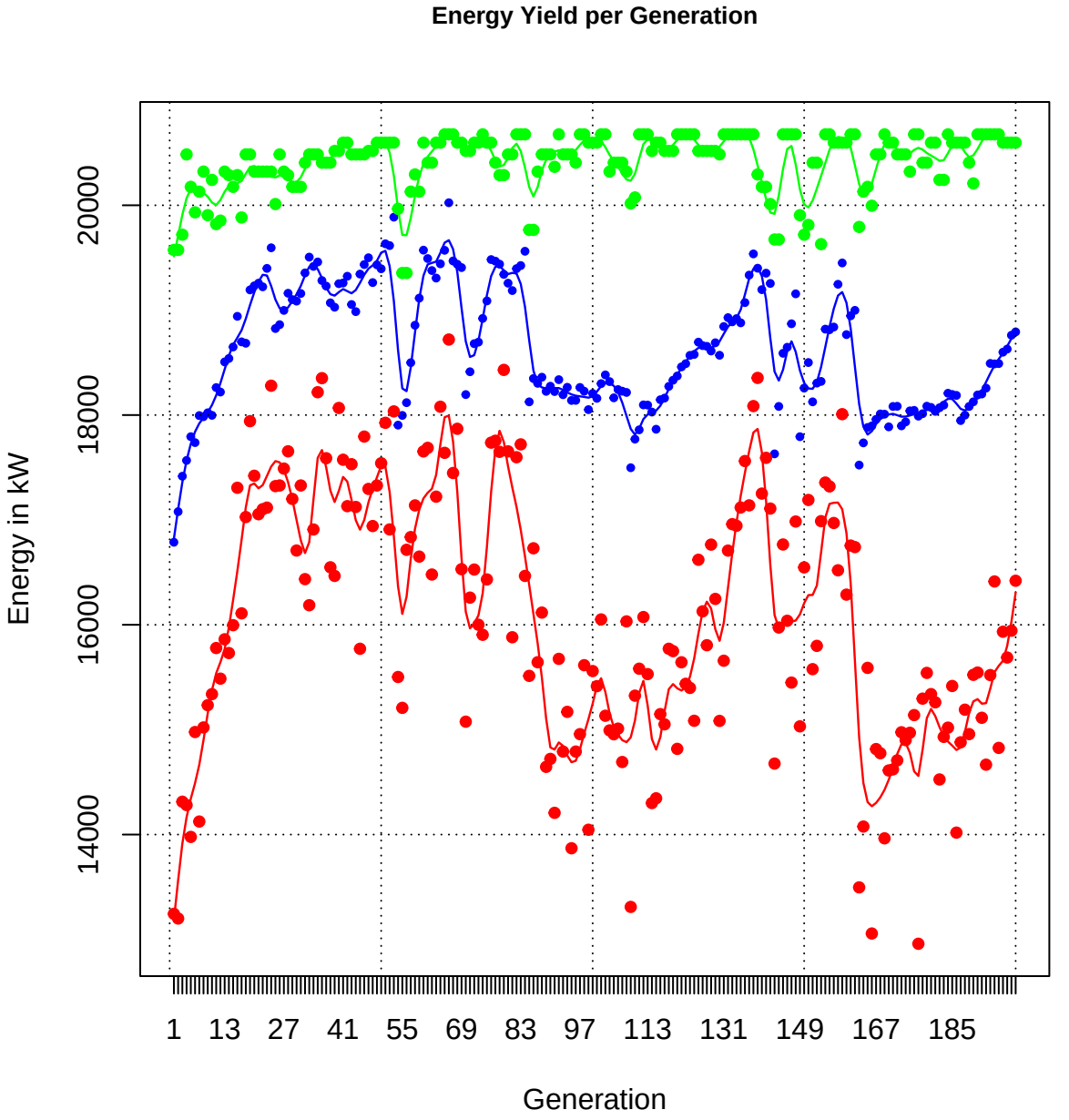
minimal Distance 150
mean Distance 773.72

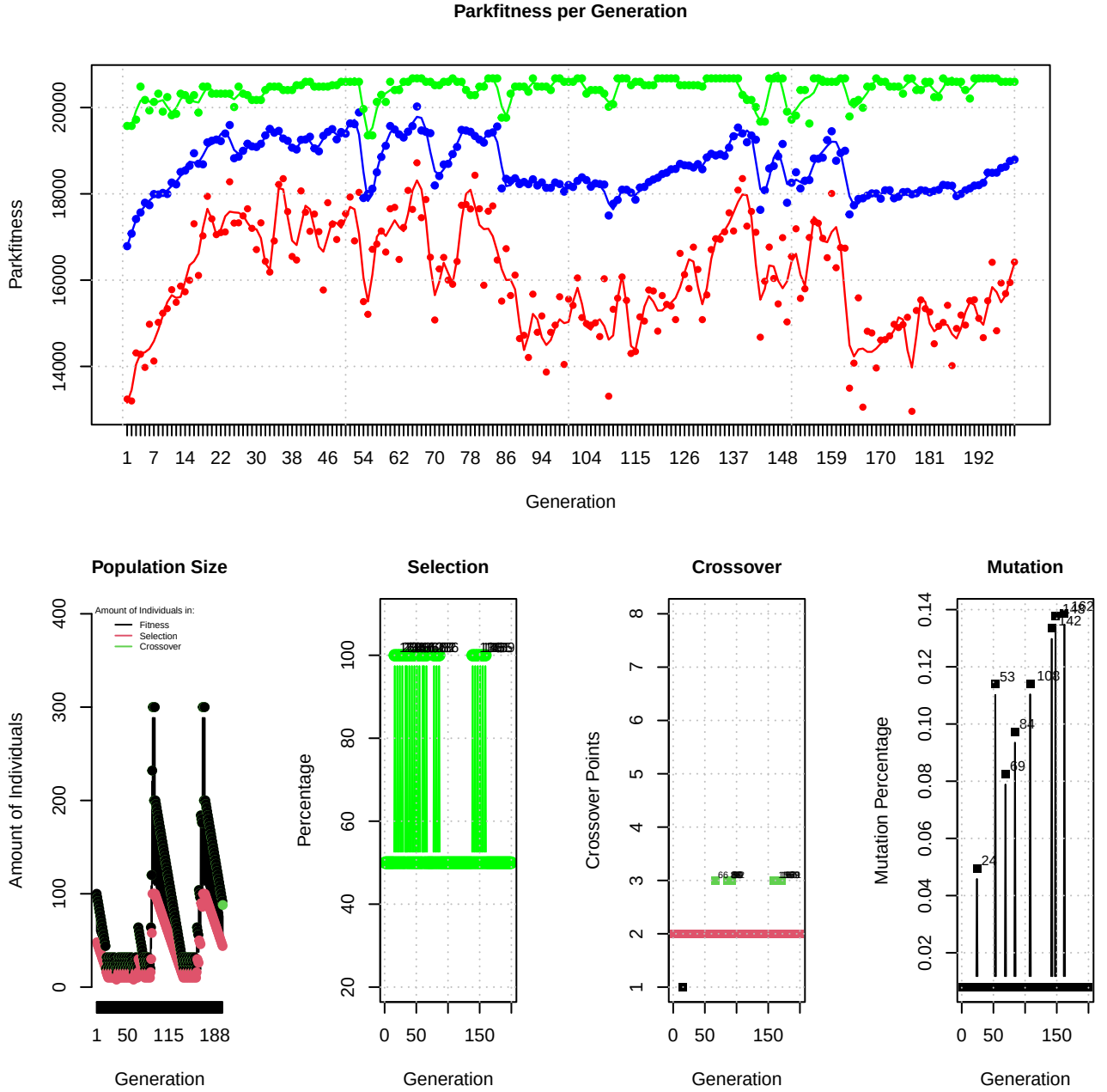
1 Best Energy Windfarm
Energy Output 20676.1 kW
Efficiency: 97.09 %

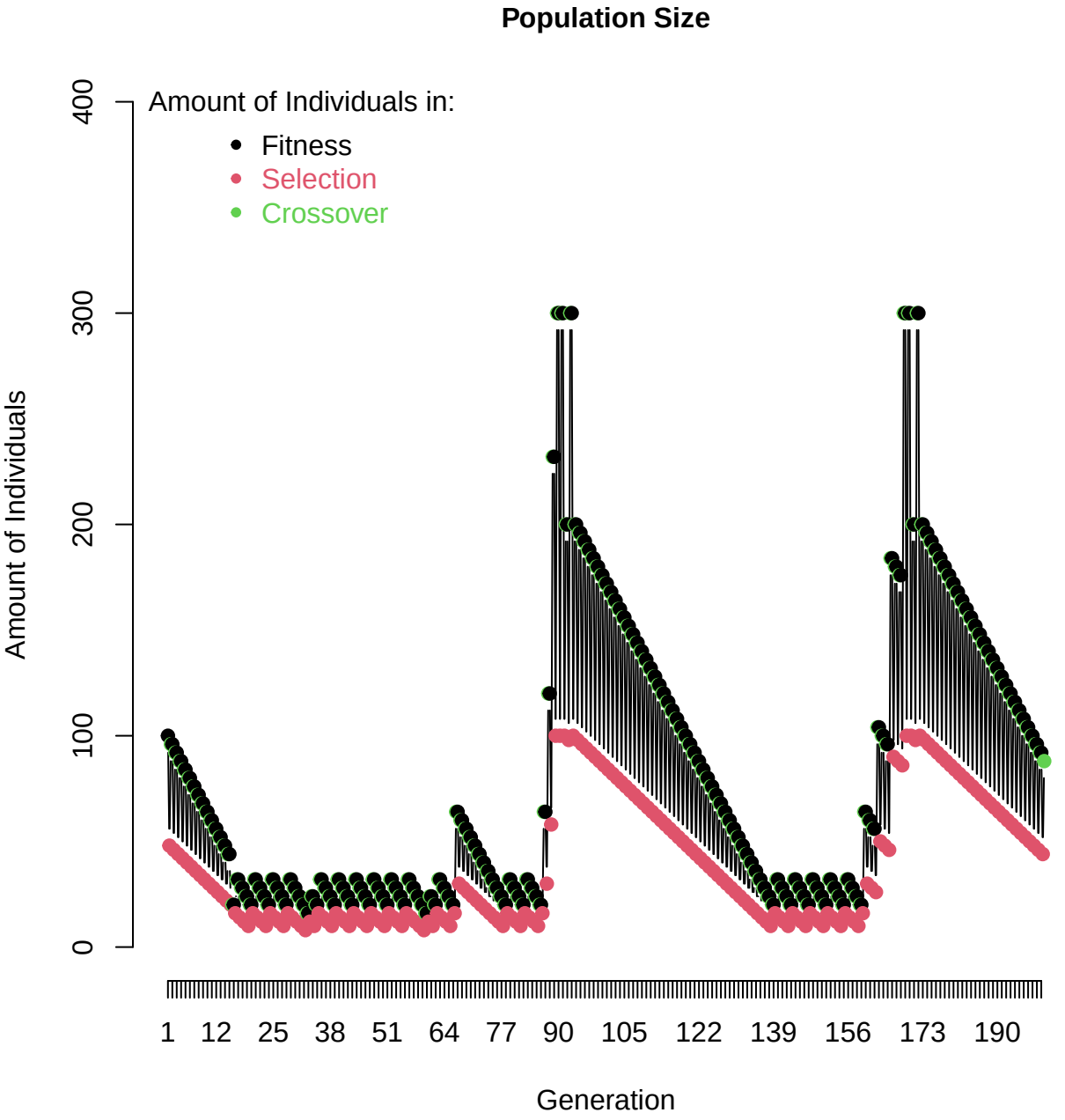


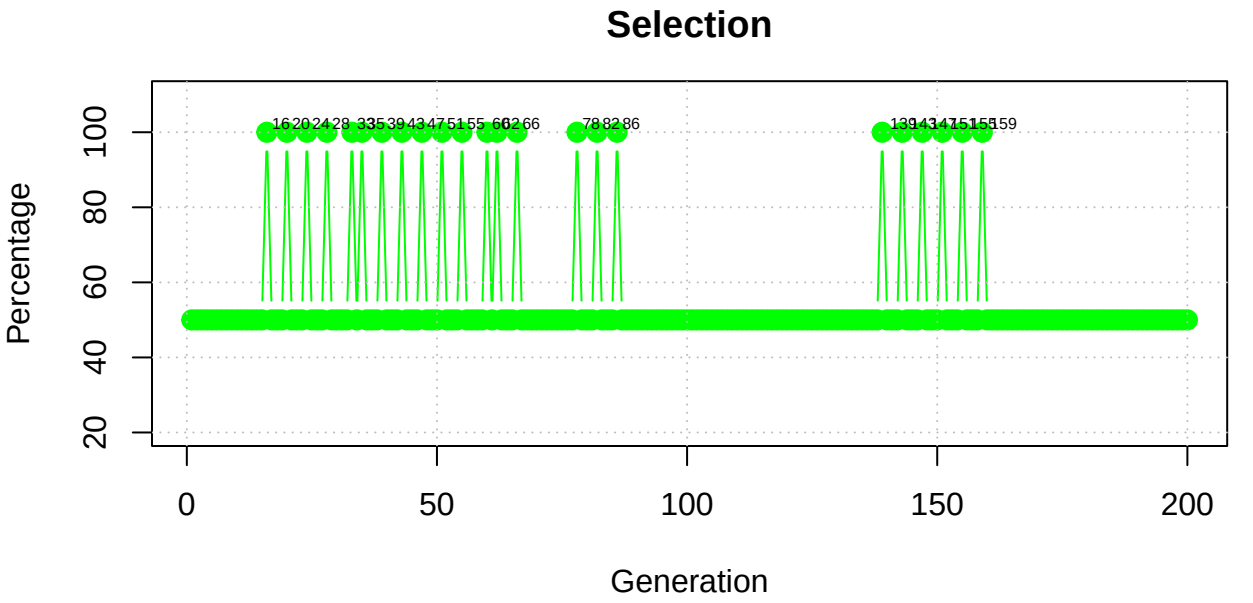
minimal Distance 150
mean Distance 773.72

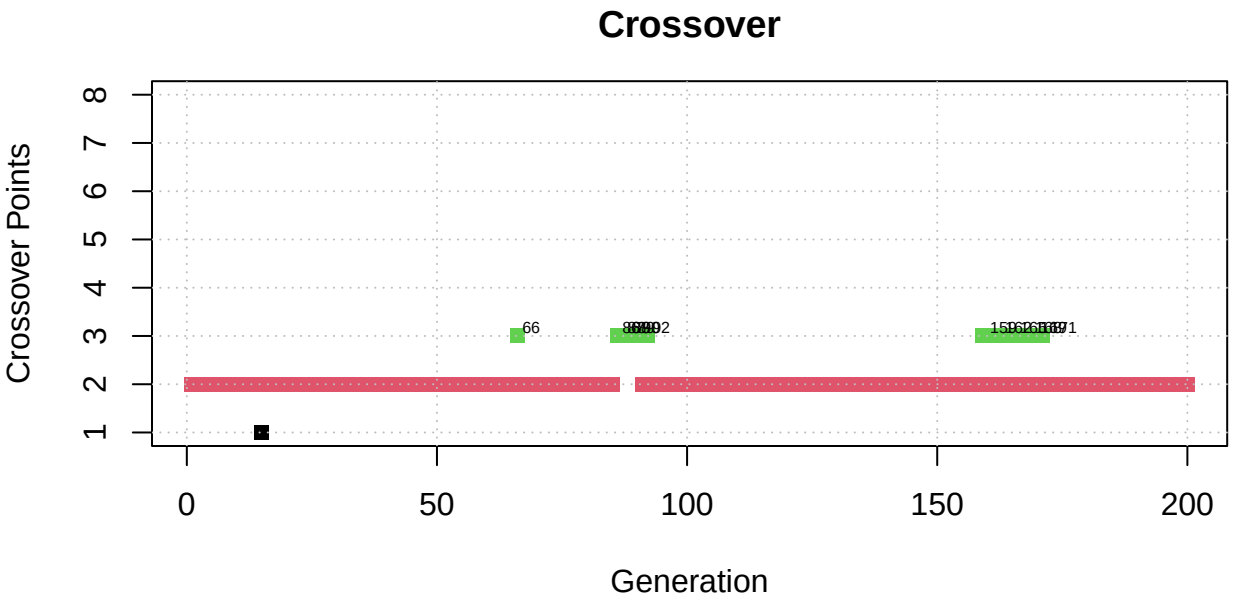

Park Efficiency per Generation
Park Efficiency in %
60
70
80
90
1
13
27
41
55
69
83
97
113
131
149
167
185
Generation

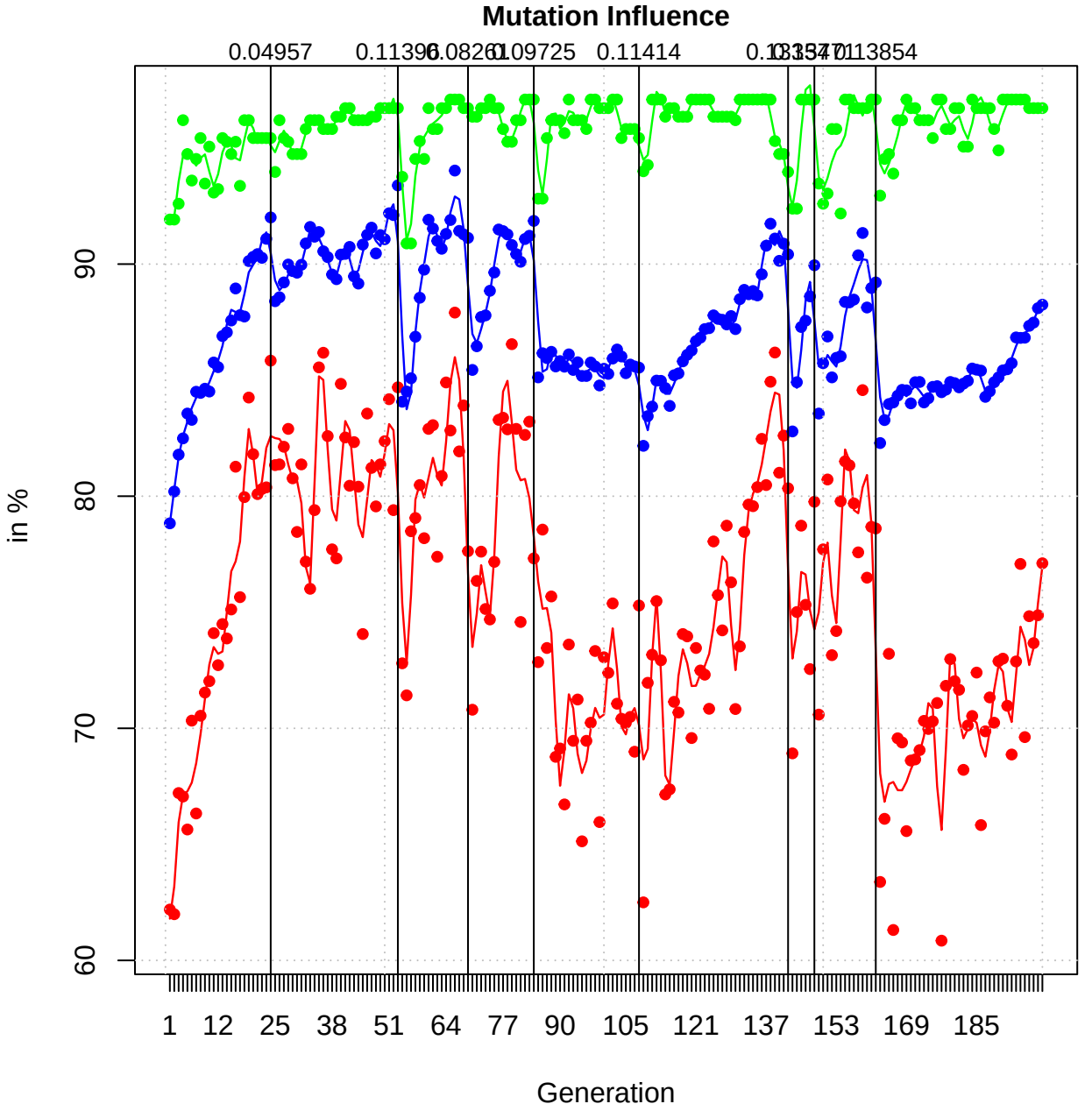

Energy Yield per Generation
Energy in kW
20000
18000
16000
14000
1
13
27
41
55
69
83
97
113
131
149
167
185
Generation

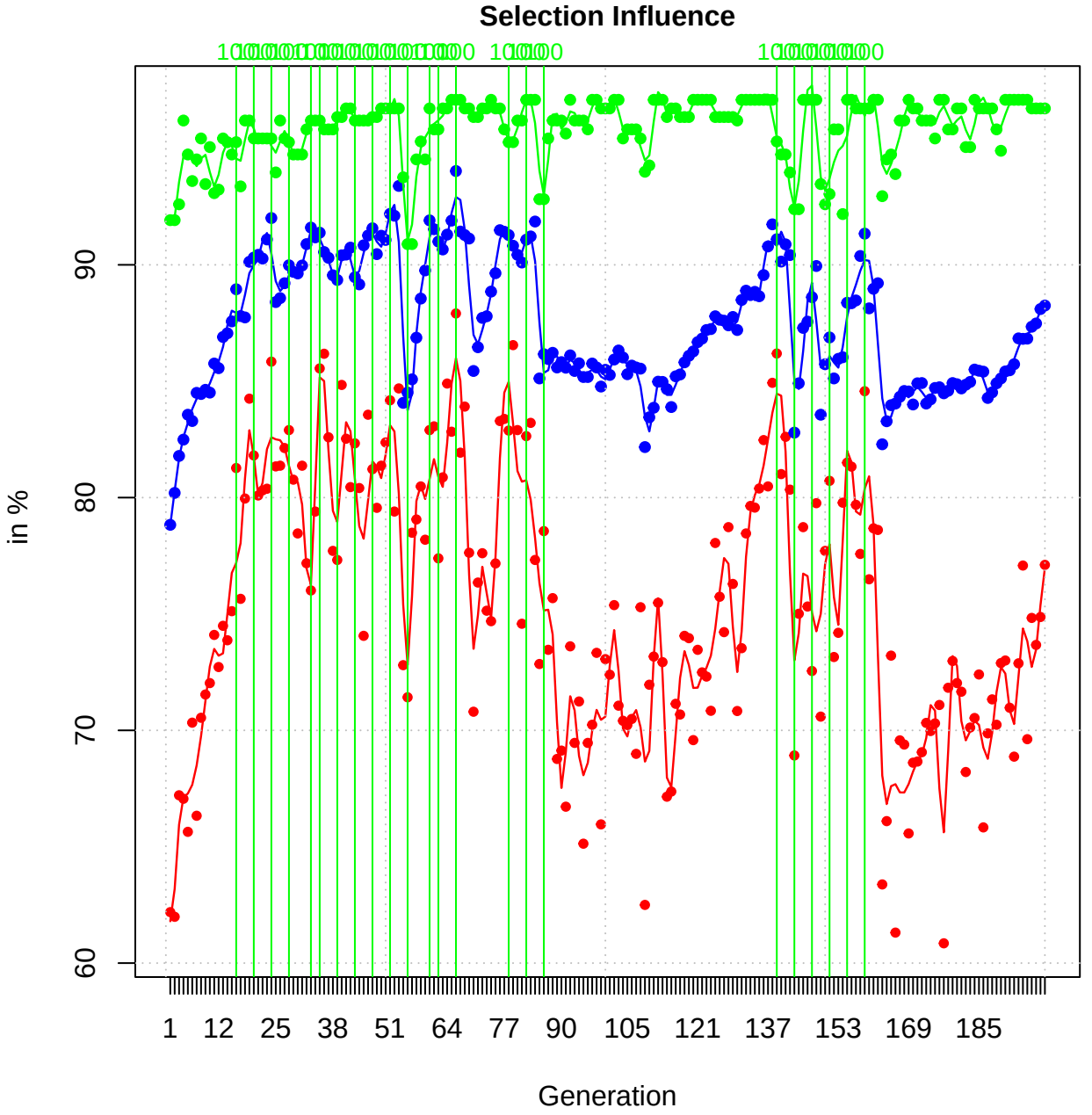

Parkfitness per Generation
Parkfitness
20000
18000
16000
14000
1 7 14 22 30 38 46 54 62 70 78 86 94 104 115 126 137 148 159 170 181 192
Generation
Population Size
Amount of Individuals in:
Fitness
Selection
Crossover
Amount of Individuals
400
300
200
100
0
1 50 115 188
Generation
Selection
Percentage
100
80
60
40
20
0 50 150
Generation
Crossover
Crossover Points
8
7
6
5
4
3
2
1
0 50 150
Generation
Mutation
Mutation Percentage
0.14
0.12
0.10
0.08
0.06
0.04
0.02
24
53
69
84
103
142
0 50 150
Generation

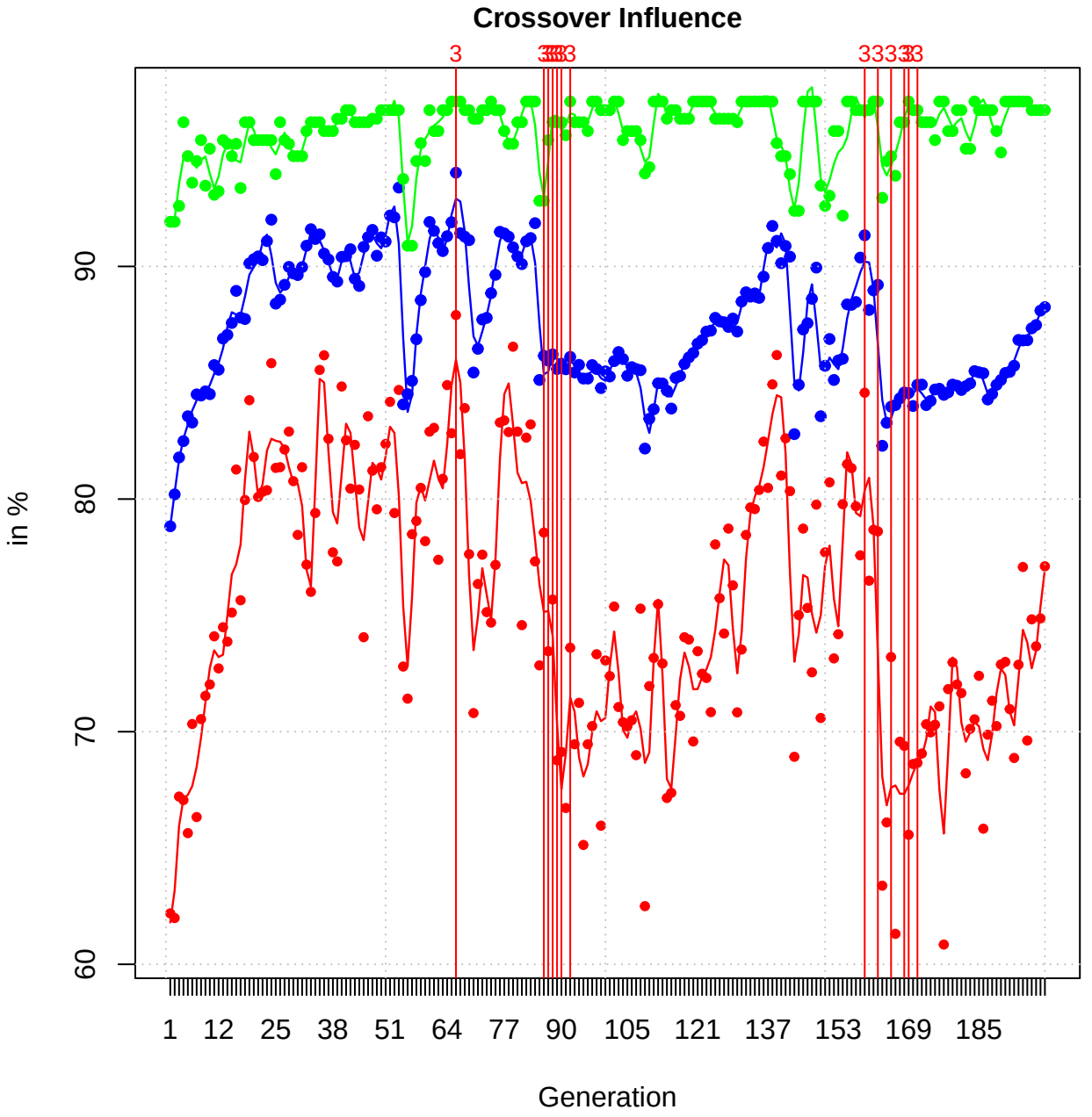

Population Size
Amount of Individuals in:
Fitness
Selection
Crossover
Amount of Individuals
0
100
200
300
400
1
12
25
38
51
64
77
90
105
122
139
156
173
190
Generation

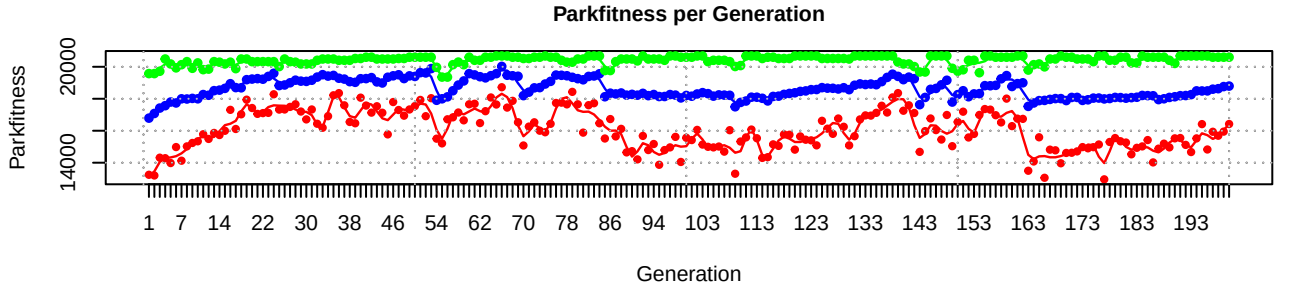

Selection
Percentage
20
40
60
80
100
0
50
100
150
200
Generation

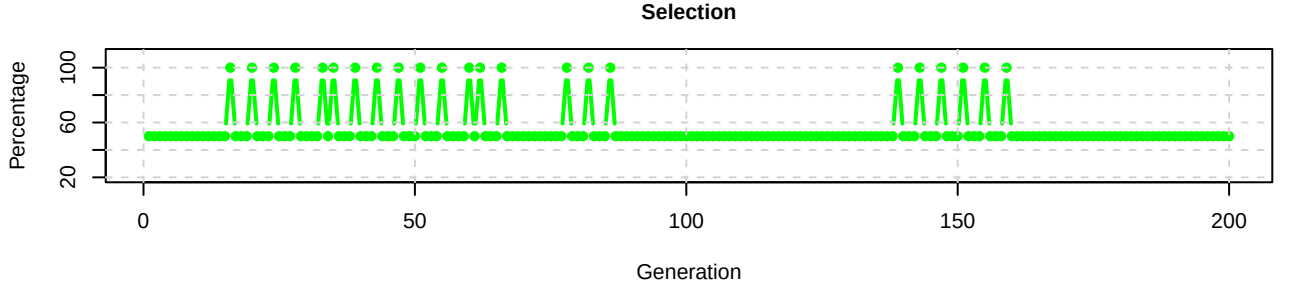

Crossover
Crossover Points
1
2
3
4
5
6
7
8
0
50
100
150
200
Generation

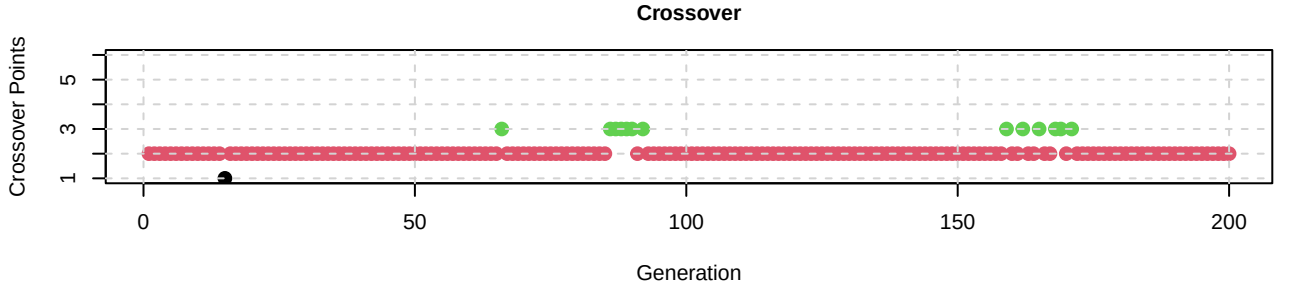

Mutation Influence
0.04957
0.11396
0.08261
0.09725
0.11414
0.13547
0.13854
in %
60
70
80
90
1
12
25
38
51
64
77
90
105
121
137
153
169
185
Generation

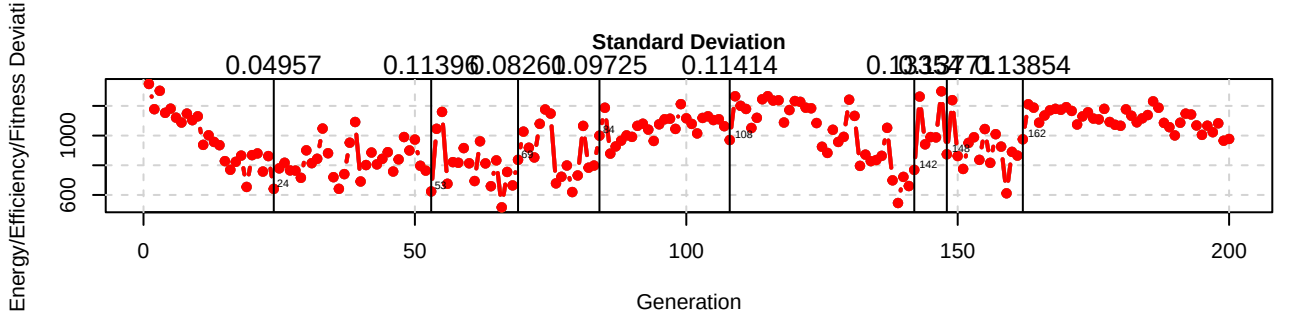

Selection Influence
in %
60
70
80
90
1
12
25
38
51
64
77
90
105
121
137
153
169
185
Generation

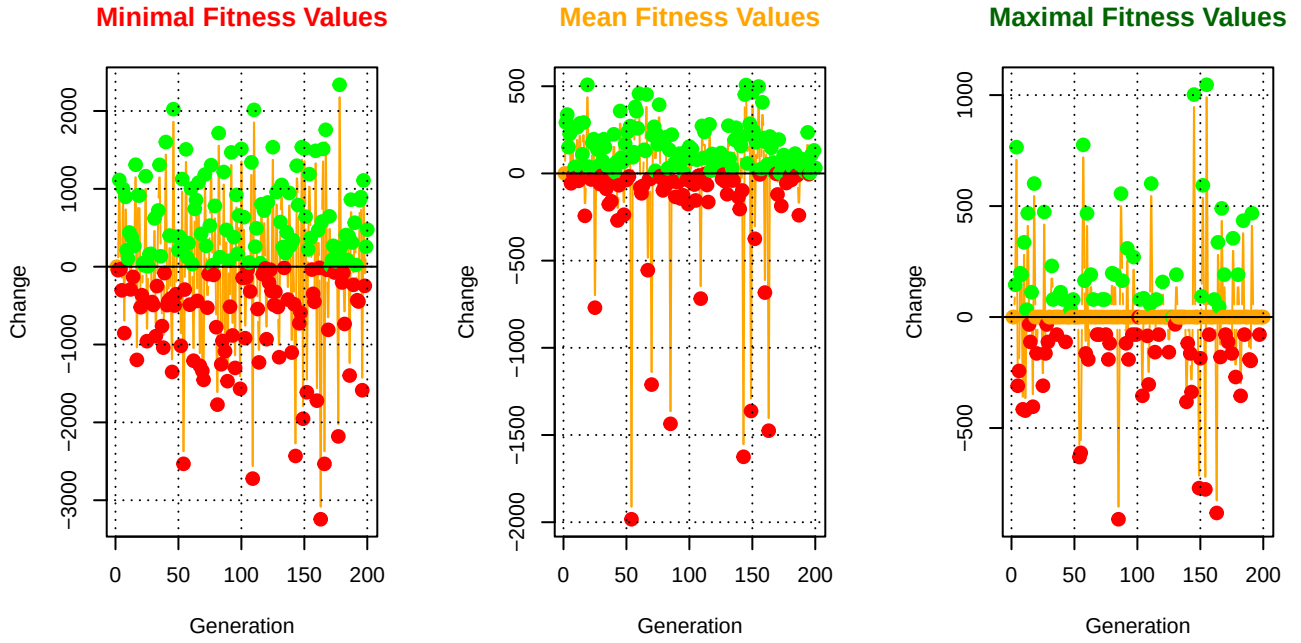

Crossover Influence
3
3333
3333
in %
60
70
80
90
1
12
25
38
51
64
77
90
105
121
137
153
169
185
Generation

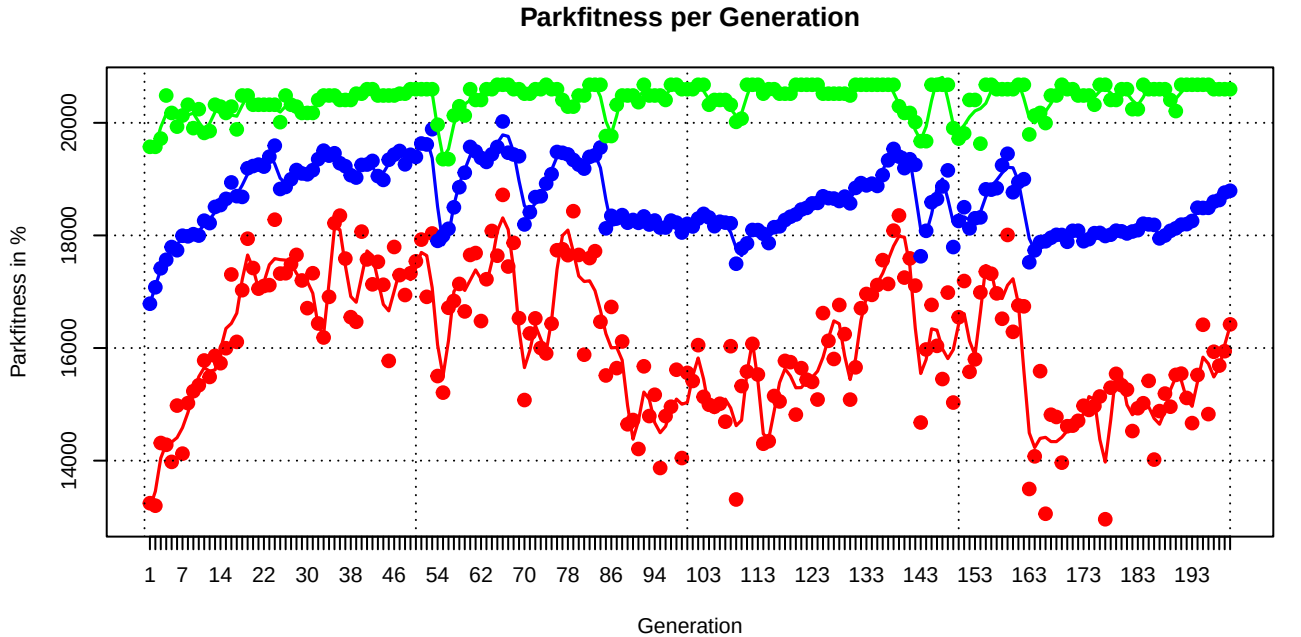

Parkfitness per Generation
Parkfitness
14000
20000
1 7 14 22 30 38 46 54 62 70 78 86 94 103 113 123 133 143 153 163 173 183 193
Generation

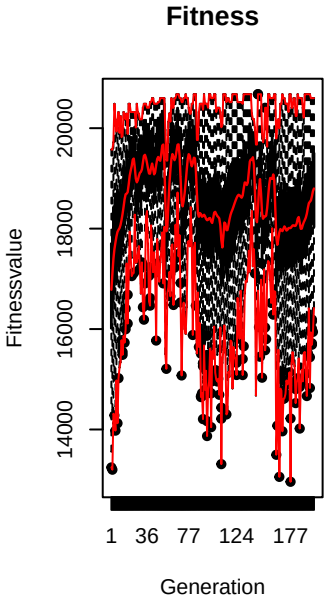

Selection
Percentage
20
60
100
0 50 100 150 200
Generation

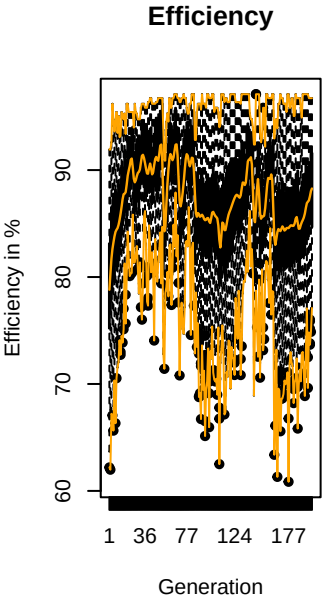

Crossover
Crossover Points
1
3
5
0 50 100 150 200
Generation

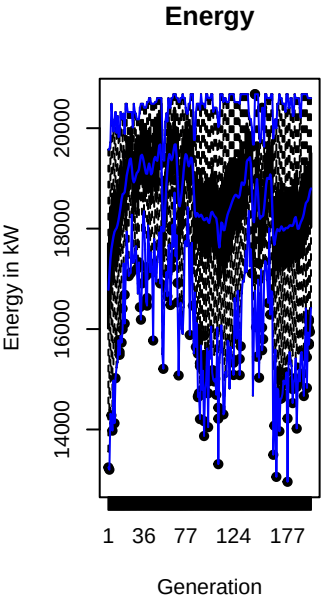

Standard Deviation
0.04957
0.11396
0.08260
0.09725
0.11414
0.11354
0.13347
0.13854
Energy/Efficiency/Fitness Deviati
600
1000
0 50 100 150 200
Generation

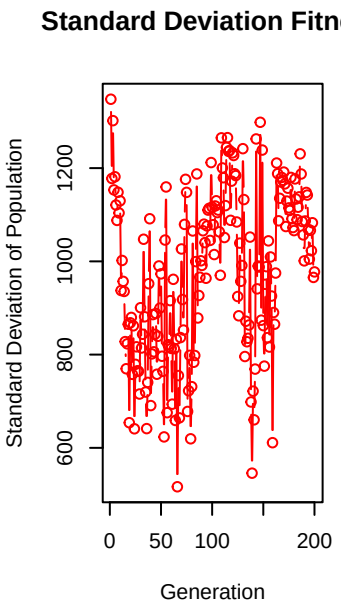

Minimal Fitness Values
Mean Fitness Values
Maximal Fitness Values
Change
Generation
0
50
100
150
200
−3000
−2000
−1000
0
1000
2000
−2000
−1500
−1000
−500
0
500
−500
0
500
1000

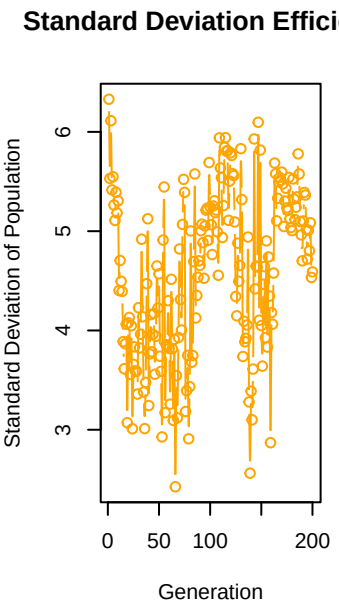

Parkfitness per Generation
Parkfitness in %
Generation
14000
16000
18000
20000
1
7
14
22
30
38
46
54
62
70
78
86
94
103
113
123
133
143
153
163
173
183
193

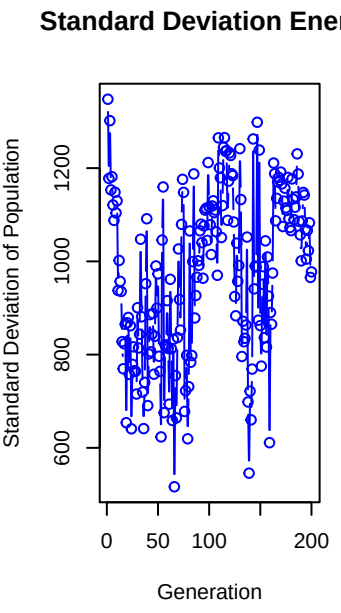

Fitness
Fitnessvalue
14000
16000
18000
20000
1
36
77
124
177
Generation


Efficiency
Efficiency in %
60
70
80
90
1
36
77
124
177
Generation

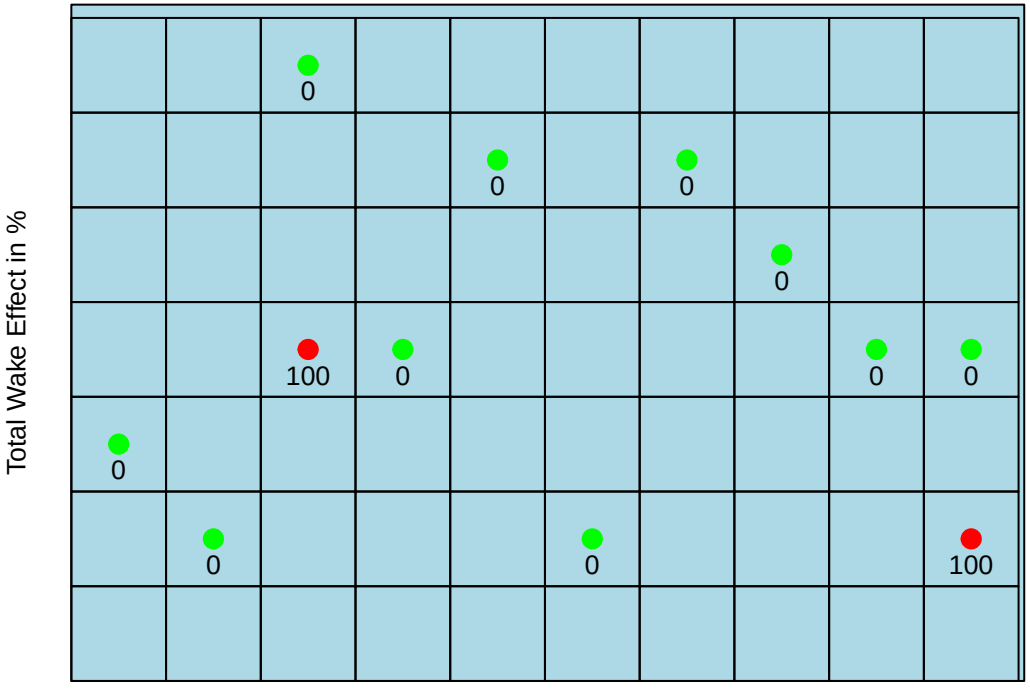

Energy
Energy in kW
14000
16000
18000
20000
1
36
77
124
177
Generation


Standard Deviation Fitness
Standard Deviation of Population
600
800
1000
1200
0
50
100
200
Generation


Standard Deviation Efficiency
Standard Deviation of Population
3
4
5
6
0
50
100
200
Generation

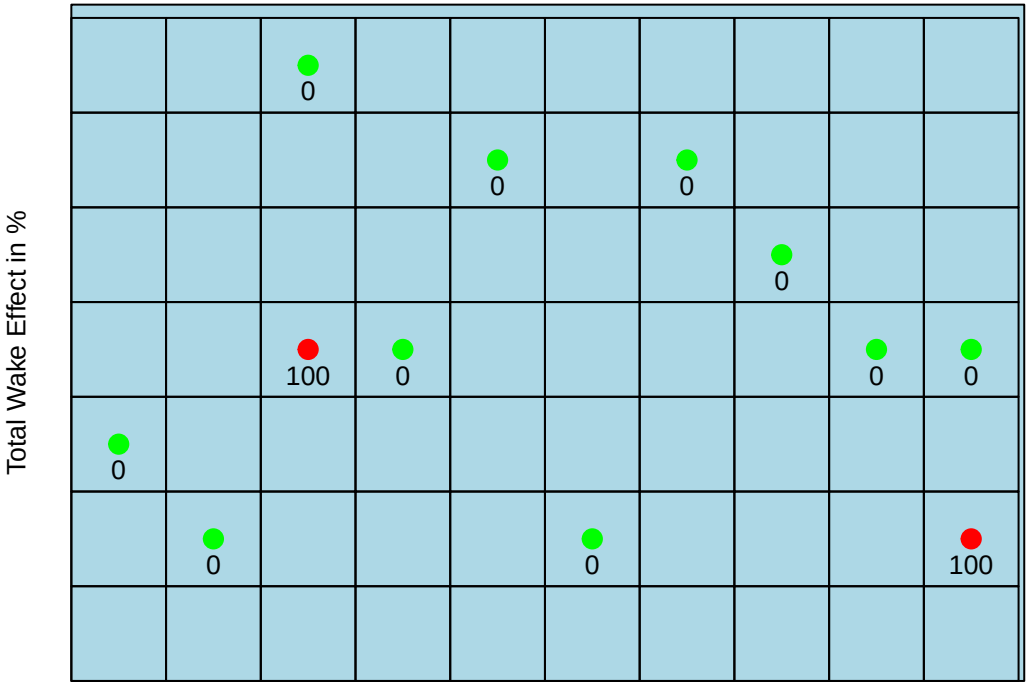

Standard Deviation Energy
Standard Deviation of Population
600
800
1000
1200
0
50
100
200
Generation

1 Best Energy Windfarm
Energy Output 19719.67 kW
Efficiency: 92.6 %



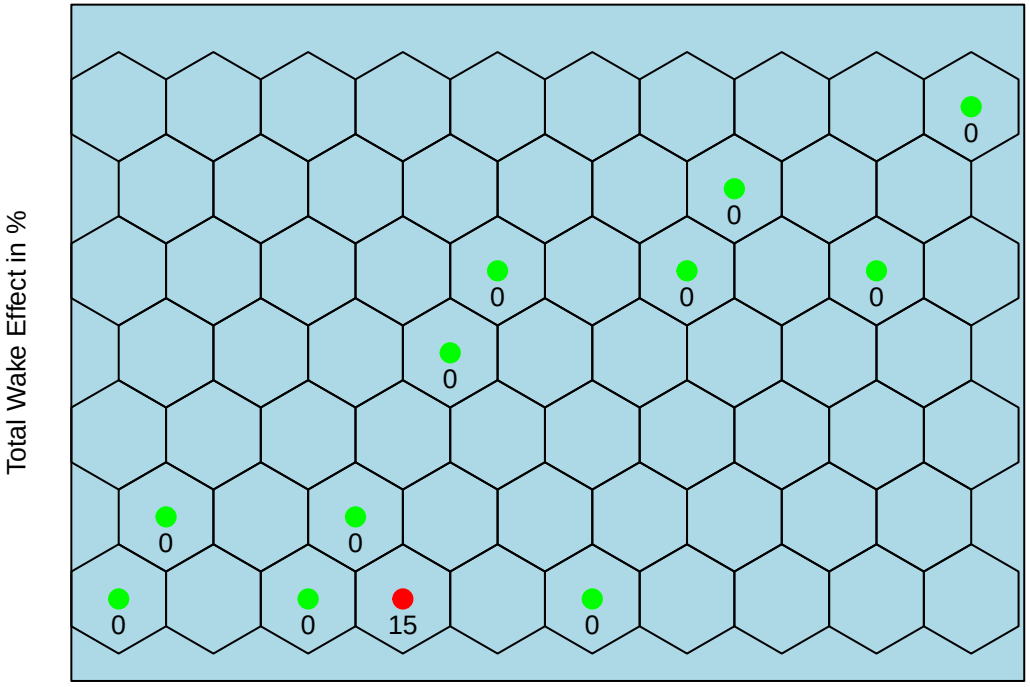
minimal Distance 150
mean Distance 686.6

1 Best Energy Windfarm
Energy Output 19719.67 kW
Efficiency: 92.6 %



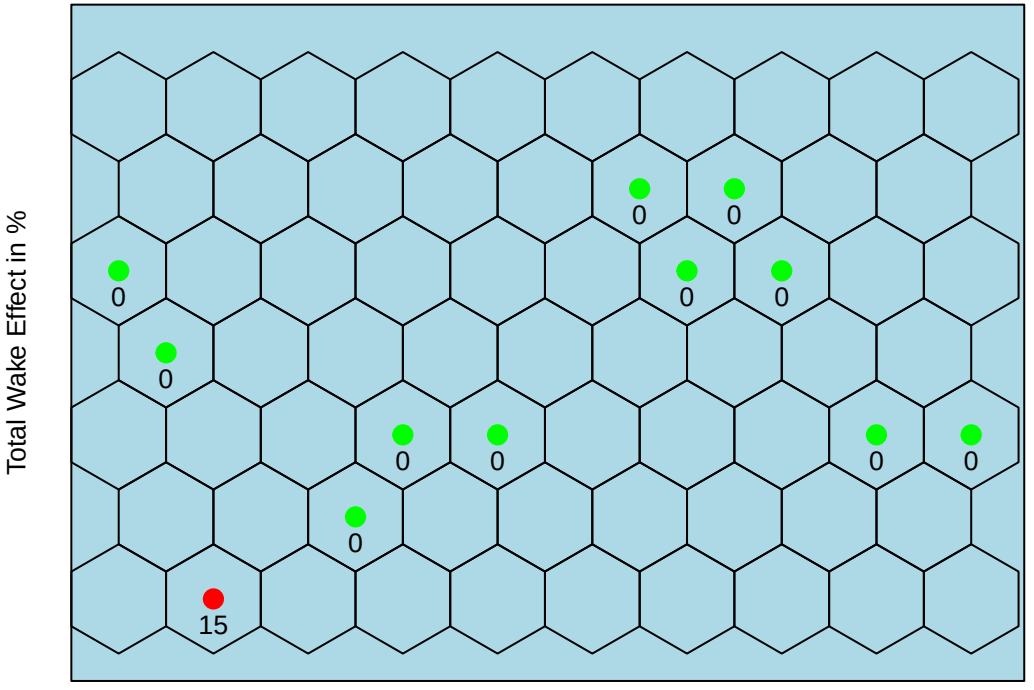
minimal Distance 150
mean Distance 686.6

2 Best Energy Windfarm
Energy Output 21161.49 kW
Efficiency: 99.37 %

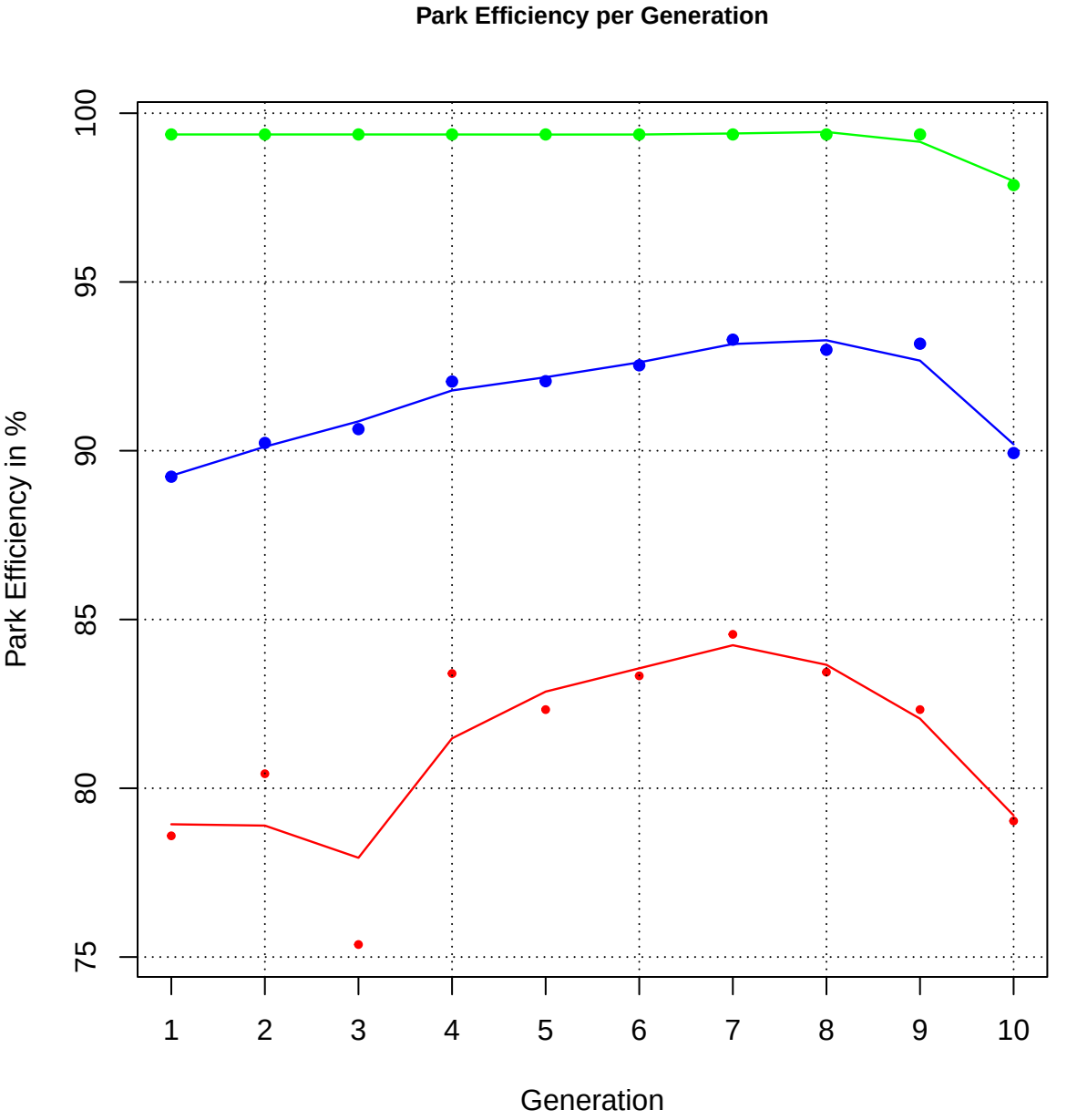


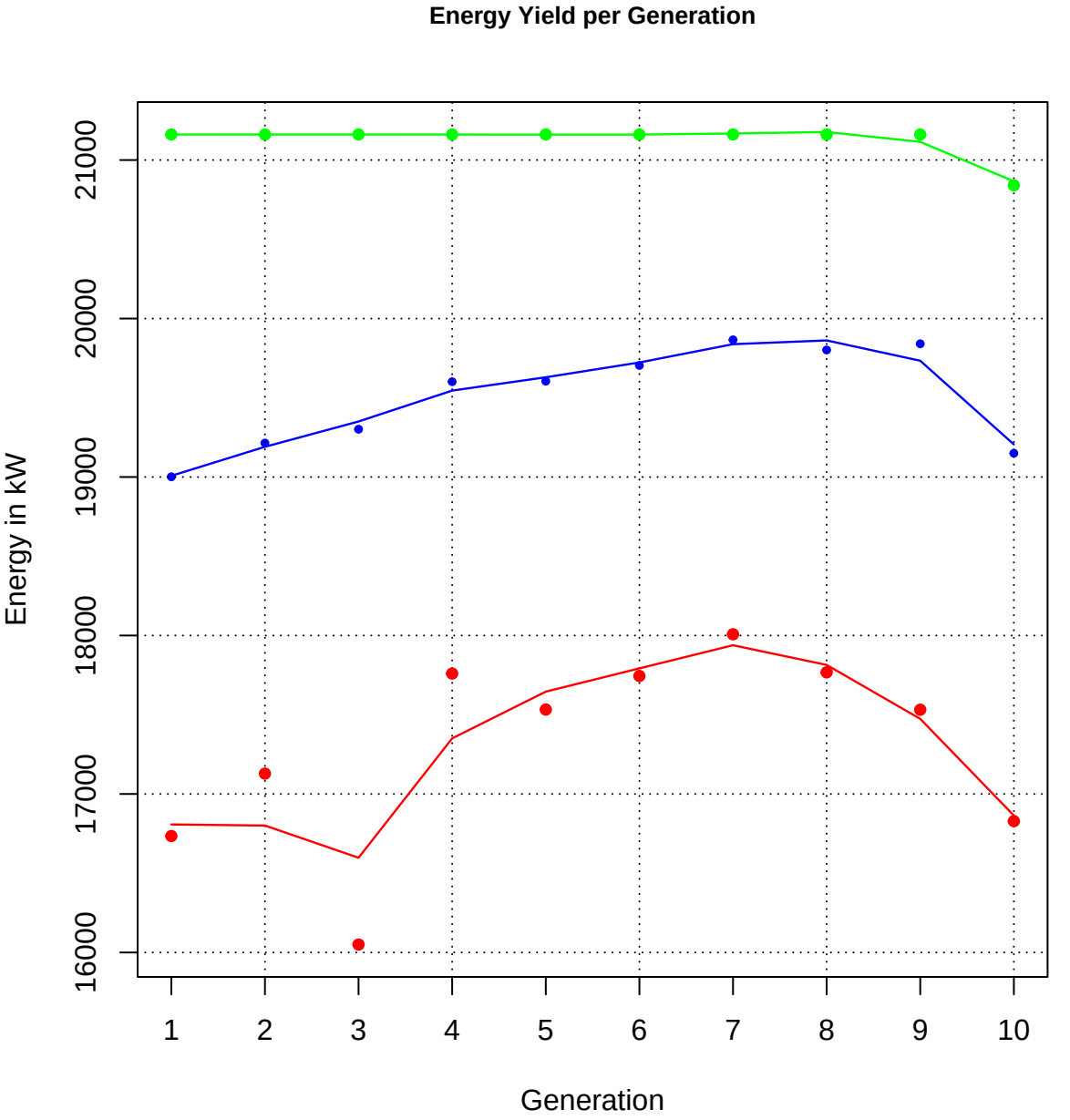
minimal Distance 150
mean Distance 637.95

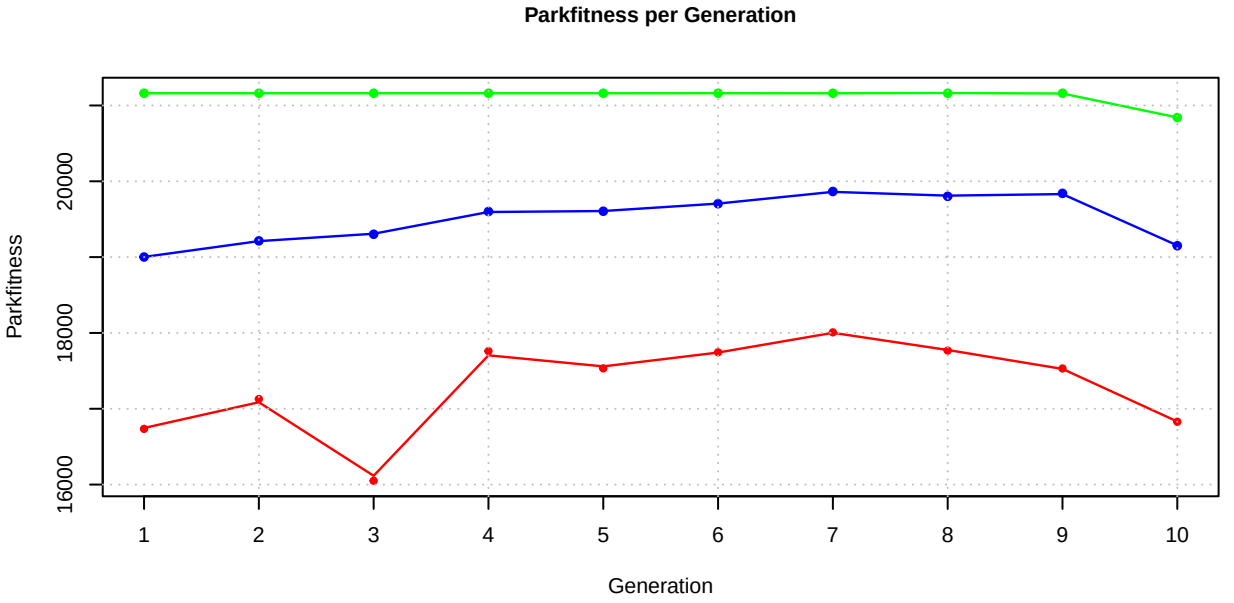
1 Best Energy Windfarm
Energy Output 21161.49 kW
Efficiency: 99.37 %

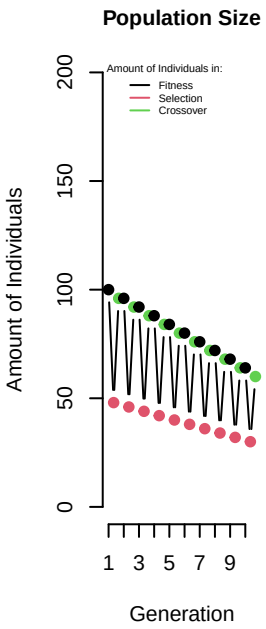


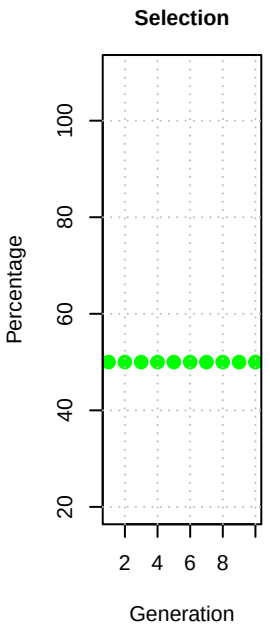
minimal Distance 150
mean Distance 627.61

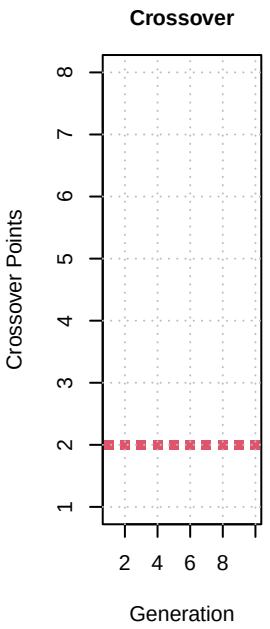

Park Efficiency per Generation
Park Efficiency in %
100
95
90
85
80
75
1
2
3
4
5
6
7
8
9
10
Generation

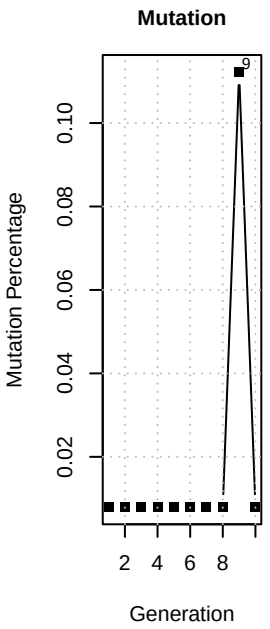

Energy Yield per Generation
Energy in kW
16000
17000
18000
19000
20000
21000
1
2
3
4
5
6
7
8
9
10
Generation

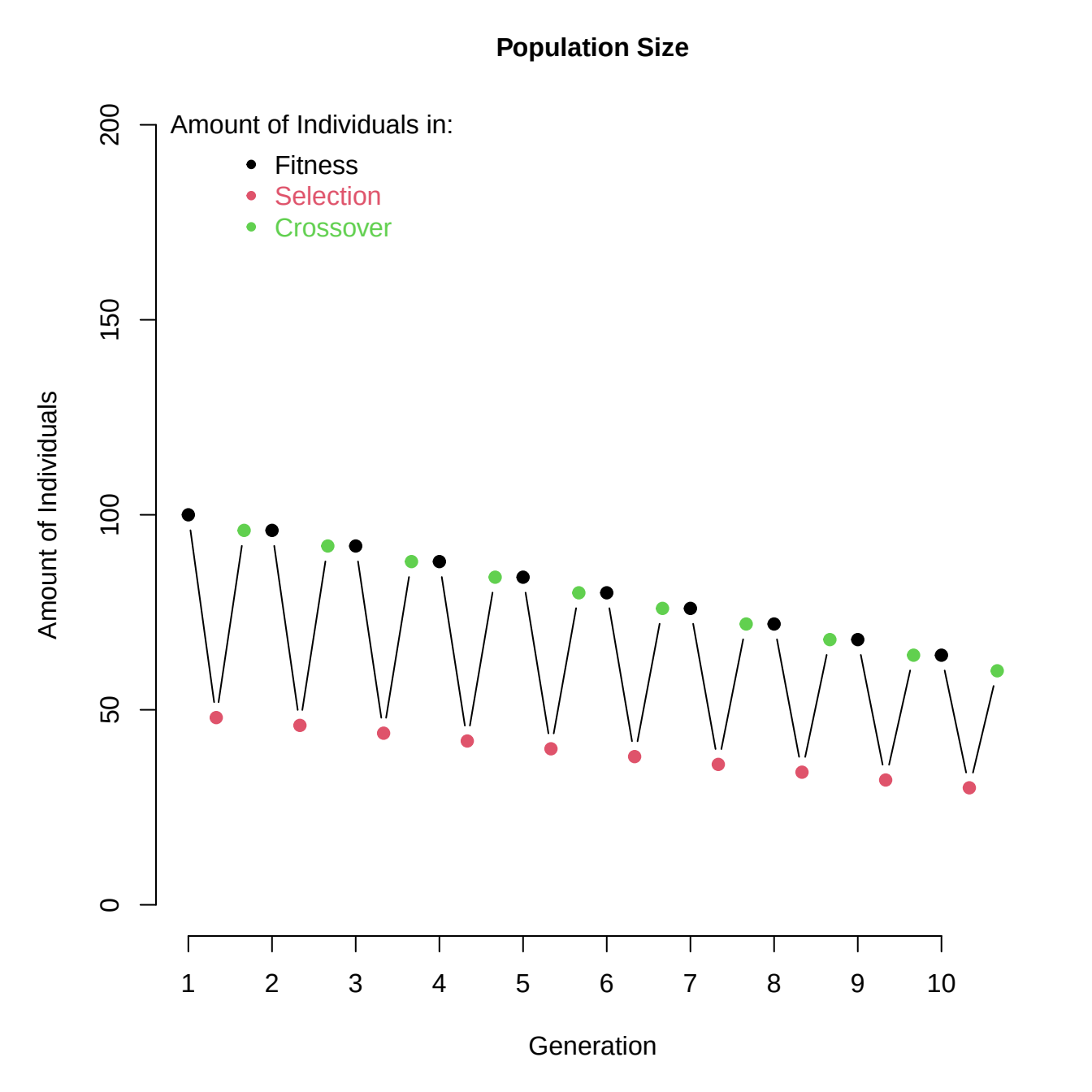

Parkfitness per Generation
Parkfitness
16000
18000
20000
1
2
3
4
5
6
7
8
9
10
Generation

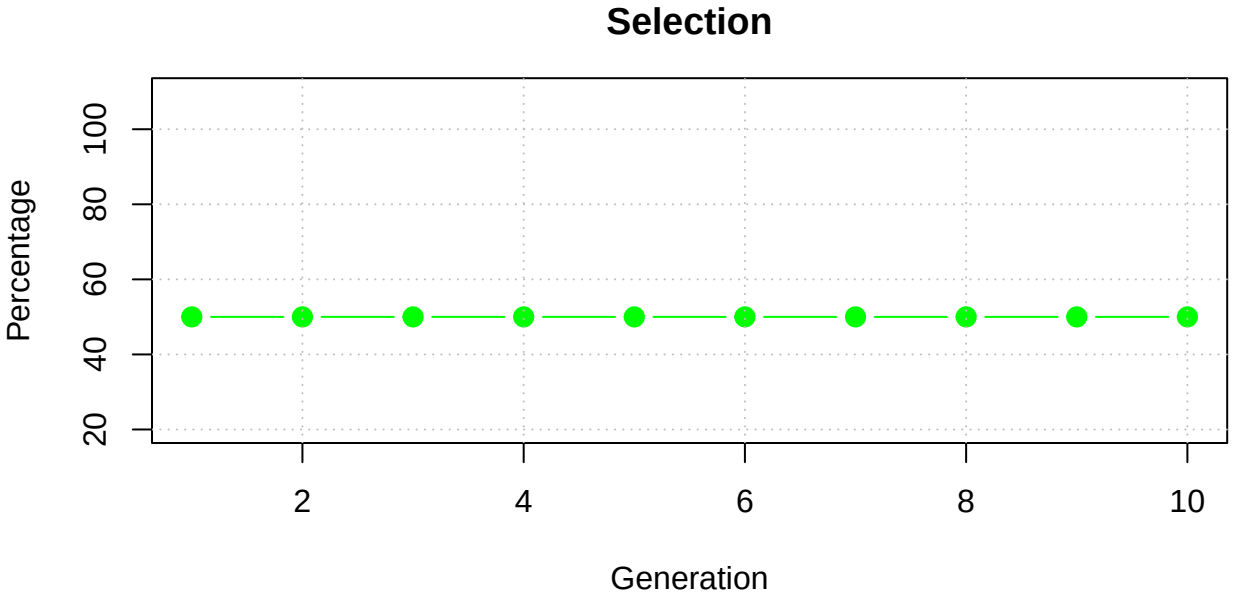

Population Size
Amount of Individuals in:
Fitness
Selection
Crossover
Amount of Individuals
0
50
100
150
200
1
3
5
7
9
Generation

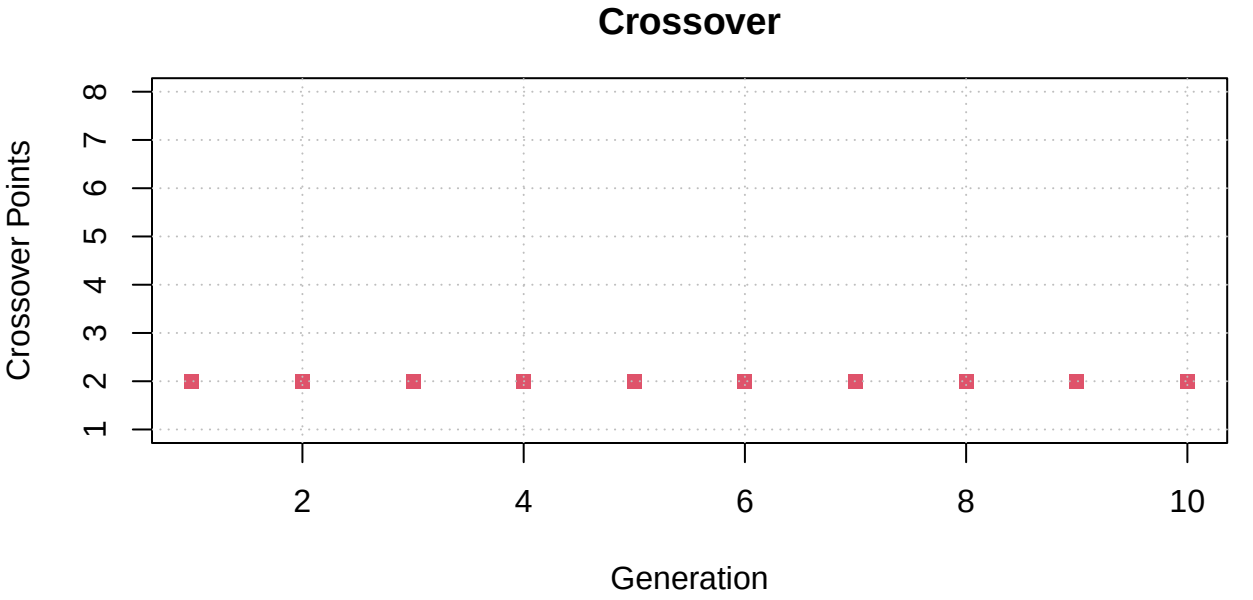

Selection
Percentage
20
40
60
80
100
2
4
6
8
Generation

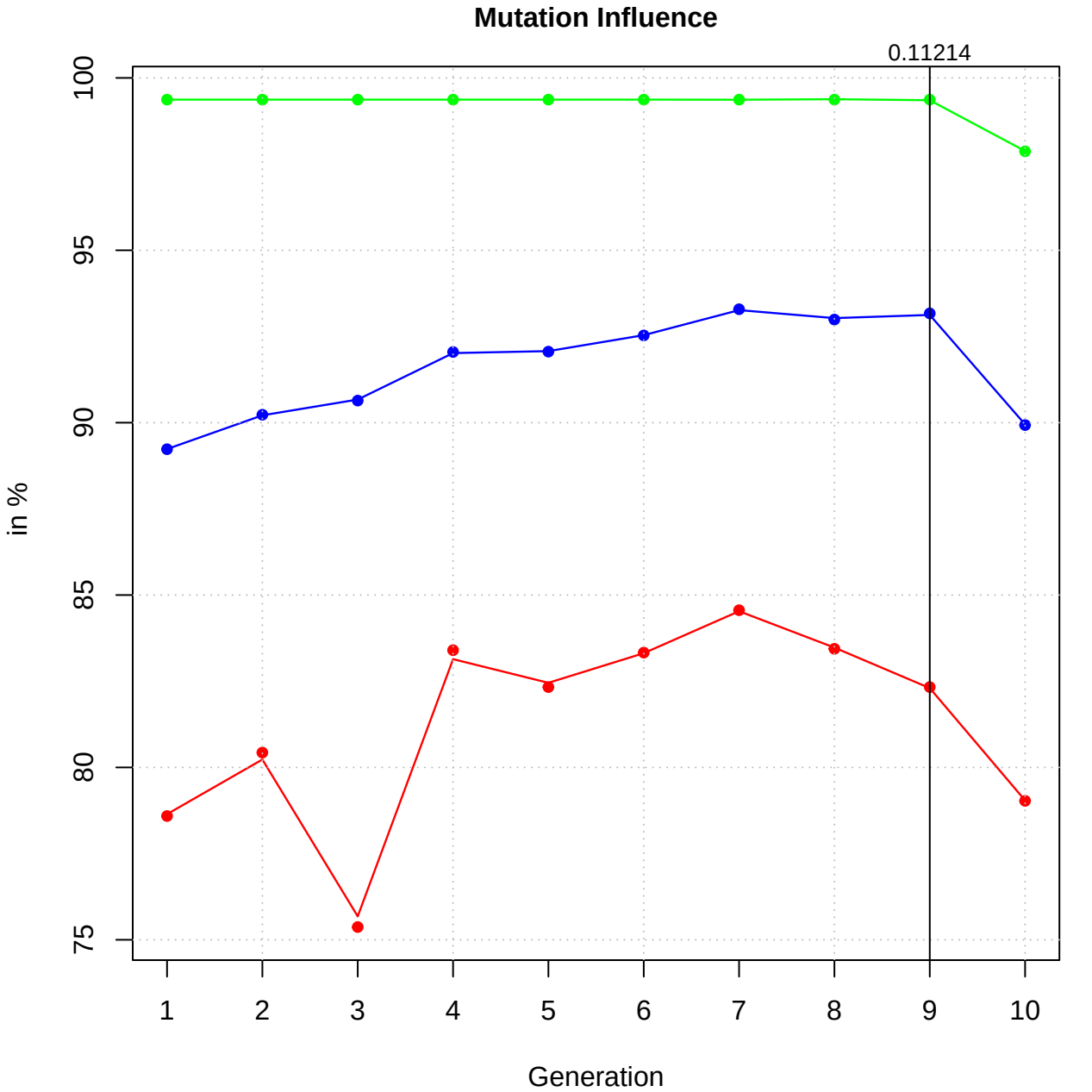

Crossover
Crossover Points
1
2
3
4
5
6
7
8
2
4
6
8
Generation

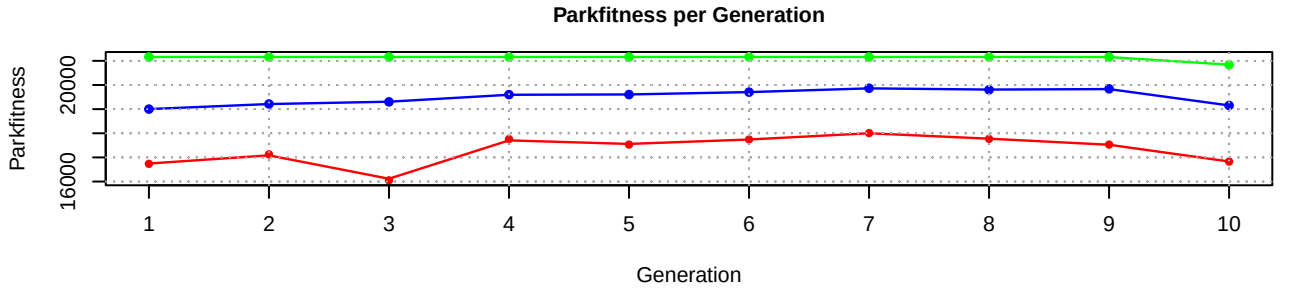

Mutation
Mutation Percentage
0.02
0.04
0.06
0.08
0.10
9
2
4
6
8
Generation

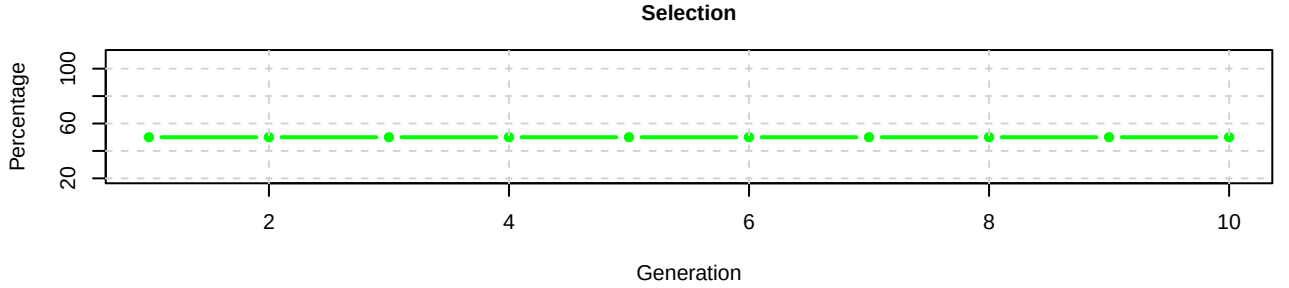

Population Size
Amount of Individuals in:
Fitness
Selection
Crossover
Amount of Individuals
0
50
100
150
200
1
2
3
4
5
6
7
8
9
10
Generation

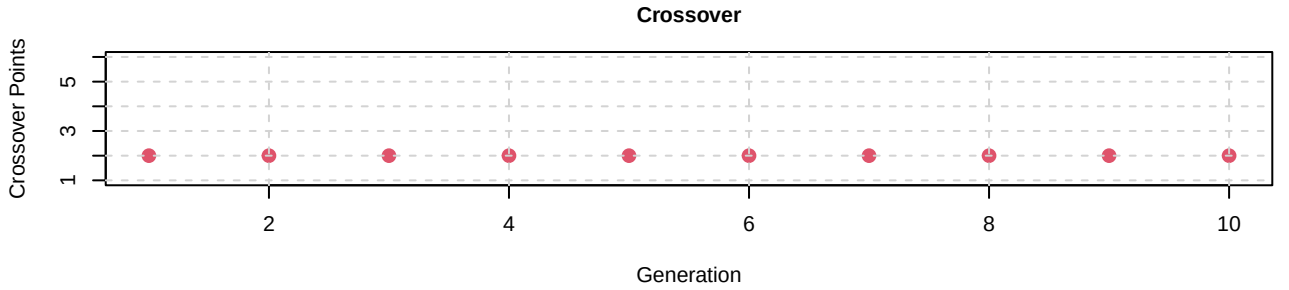

Selection
Percentage
20
40
60
80
100
2
4
6
8
10
Generation

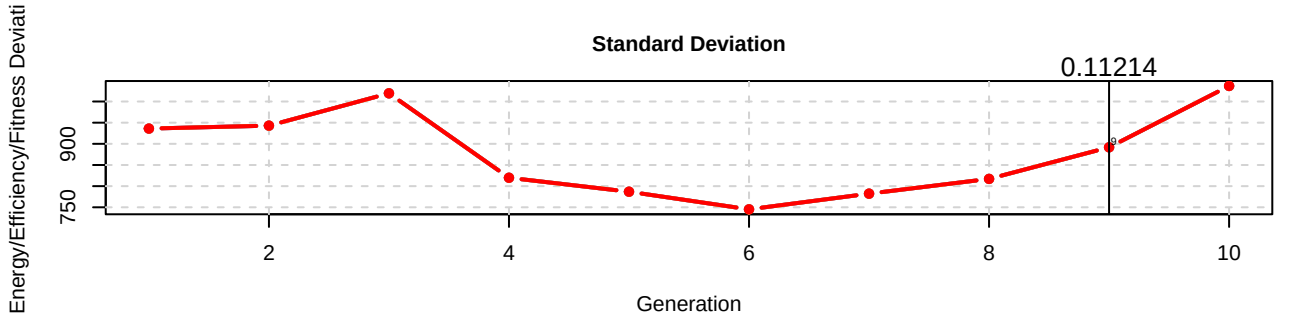

Crossover
Crossover Points
1
2
3
4
5
6
7
8
2
4
6
8
10
Generation

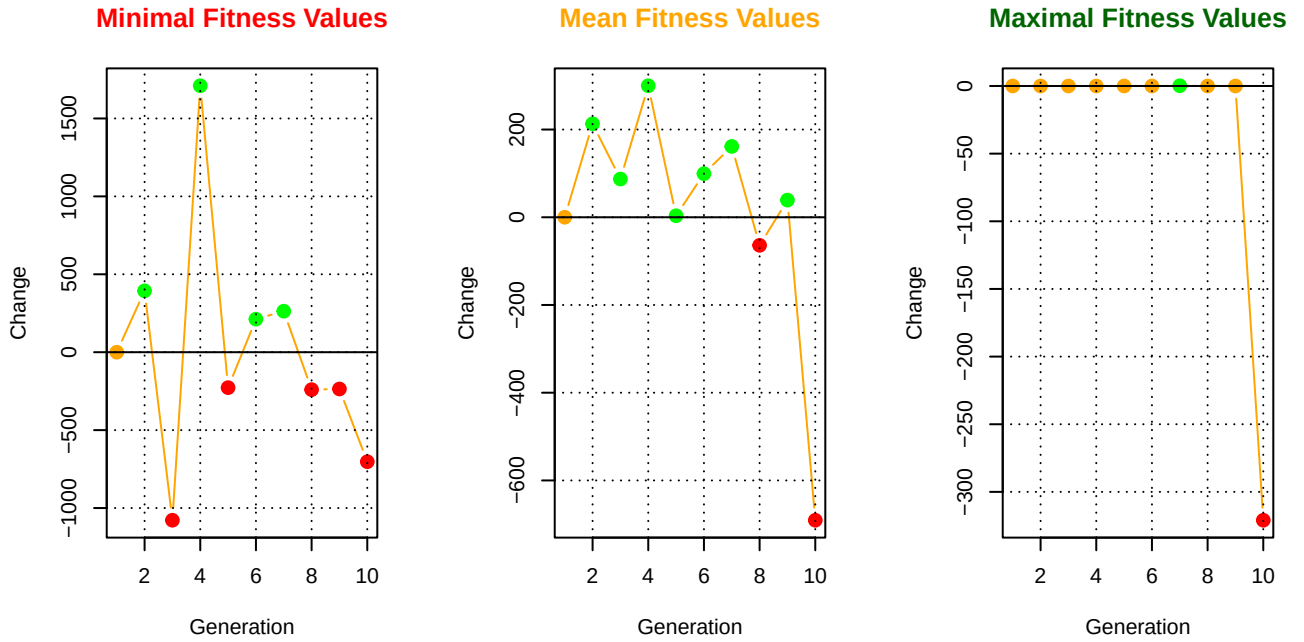

Mutation Influence
0.11214
100
95
90
85
80
75
in %
1
2
3
4
5
6
7
8
9
10
Generation

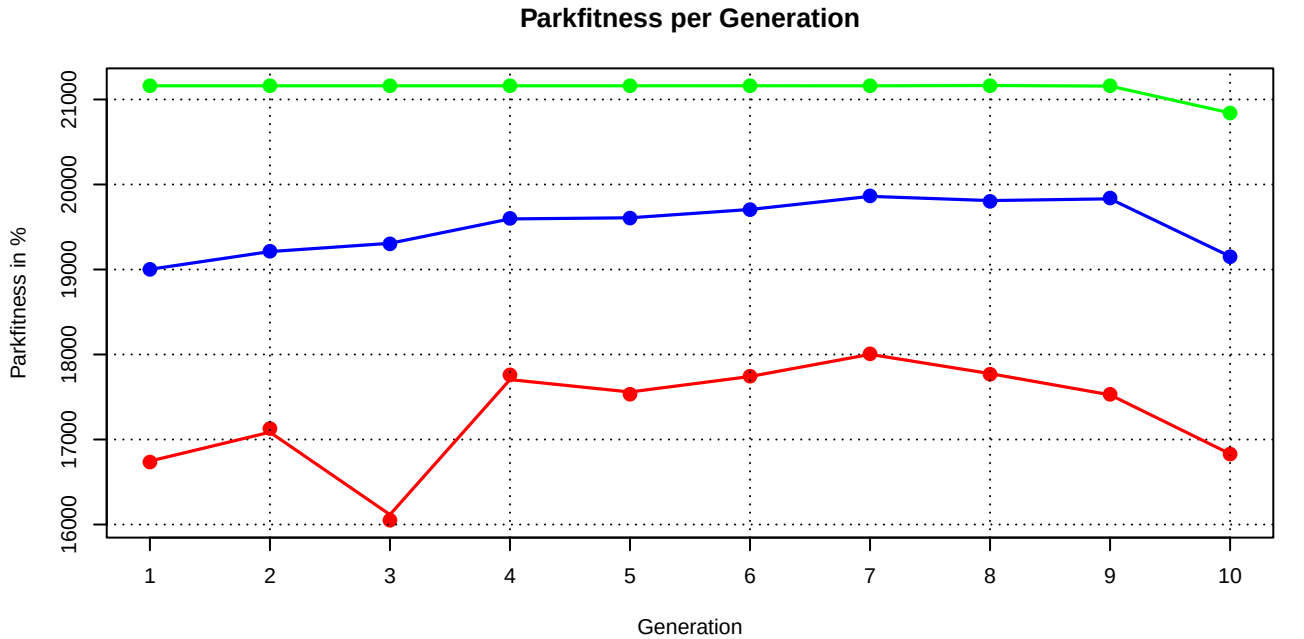

Parkfitness per Generation
Parkfitness
16000
20000
1
2
3
4
5
6
7
8
9
10
Generation

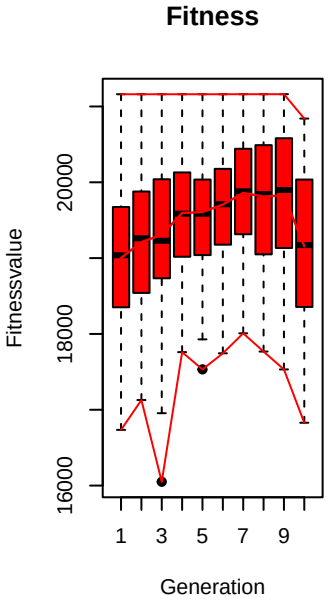

Selection
Percentage
20
60
100
2
4
6
8
10
Generation

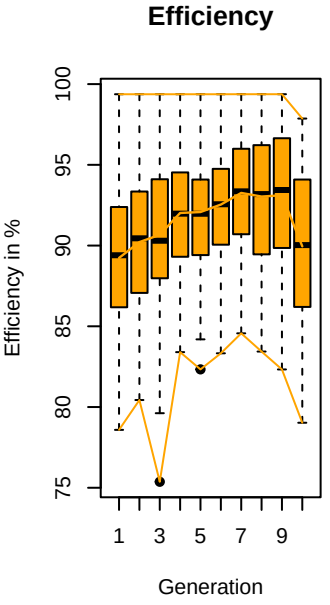

Crossover
Crossover Points
1
3
5
2
4
6
8
10
Generation

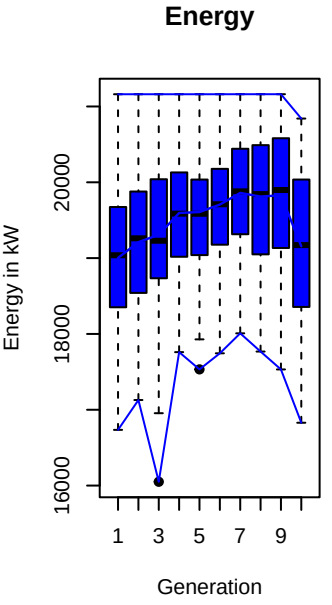

Standard Deviation
Energy/Efficiency/Fitness Deviati
750
900
0.11214
2
4
6
8
10
Generation

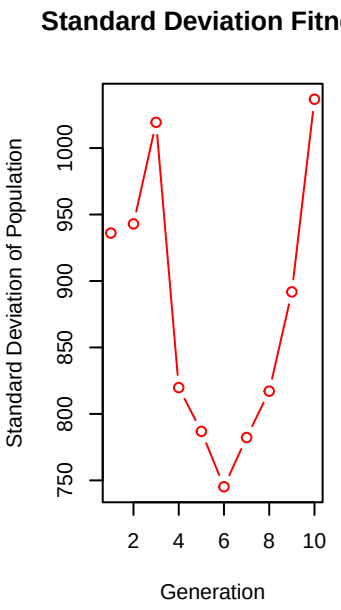

Minimal Fitness Values
Mean Fitness Values
Maximal Fitness Values
Change
Generation
−1000
−500
0
500
1000
1500
−600
−400
−200
200
−300
−250
−150
−100
−50
2
4
6
8
10

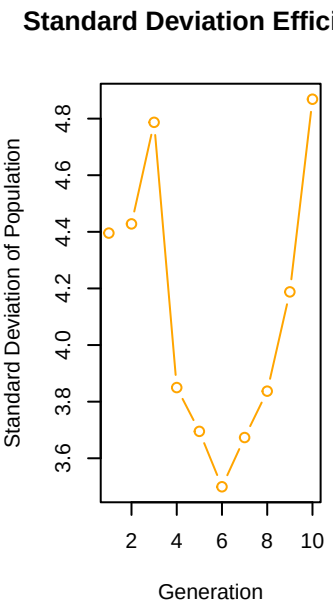

Parkfitness per Generation
Parkfitness in %
Generation
16000
17000
18000
19000
20000
21000
1
2
3
4
5
6
7
8
9
10

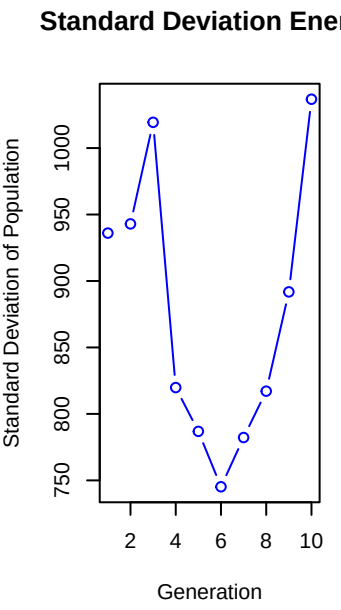

Fitness
Fitnessvalue
16000
18000
20000
1
3
5
7
9
Generation

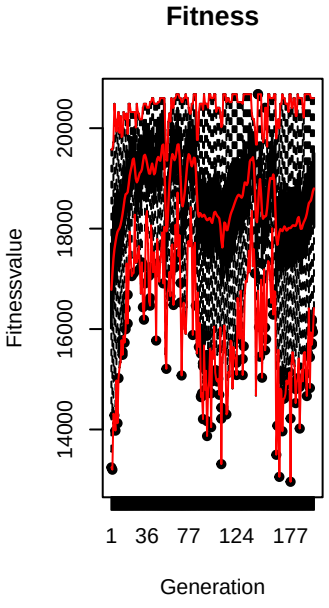

Efficiency
Efficiency in %
75
80
85
90
95
100
1
3
5
7
9
Generation

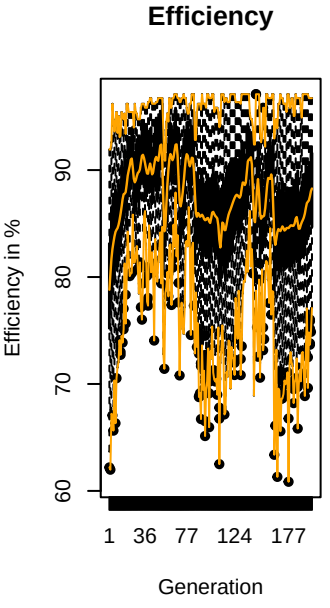

Energy
Energy in kW
16000
18000
20000
1
3
5
7
9
Generation

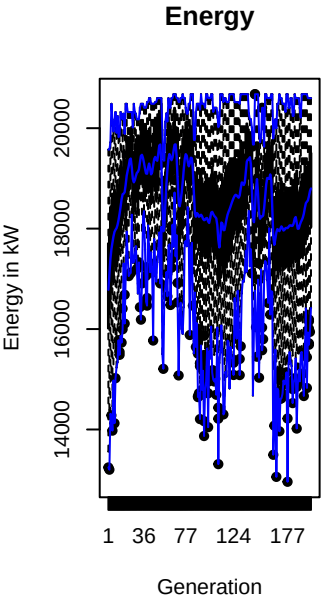

Standard Deviation Fitness
Standard Deviation of Population
750
800
850
900
950
1000
2
4
6
8
10
Generation

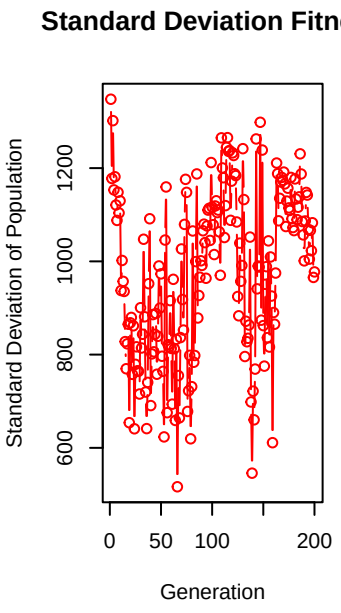

Standard Deviation Efficiency
Standard Deviation of Population
3.6
3.8
4.0
4.2
4.4
4.6
4.8
2
4
6
8
10
Generation

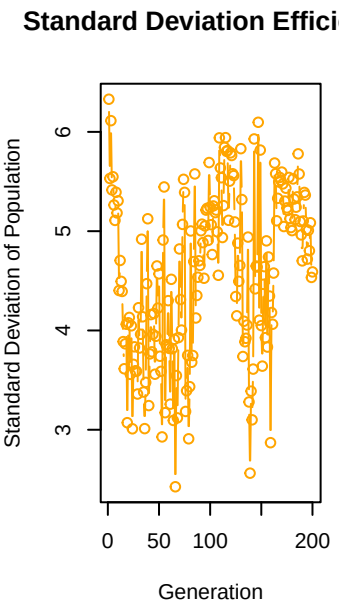

Standard Deviation Energy
Standard Deviation of Population
750
800
850
900
950
1000
2
4
6
8
10
Generation

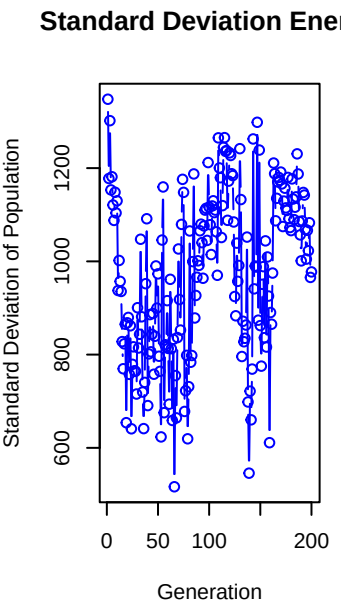

Fitness
Fitnessvalue
14000
16000
18000
20000
1
36
77
124
177
Generation

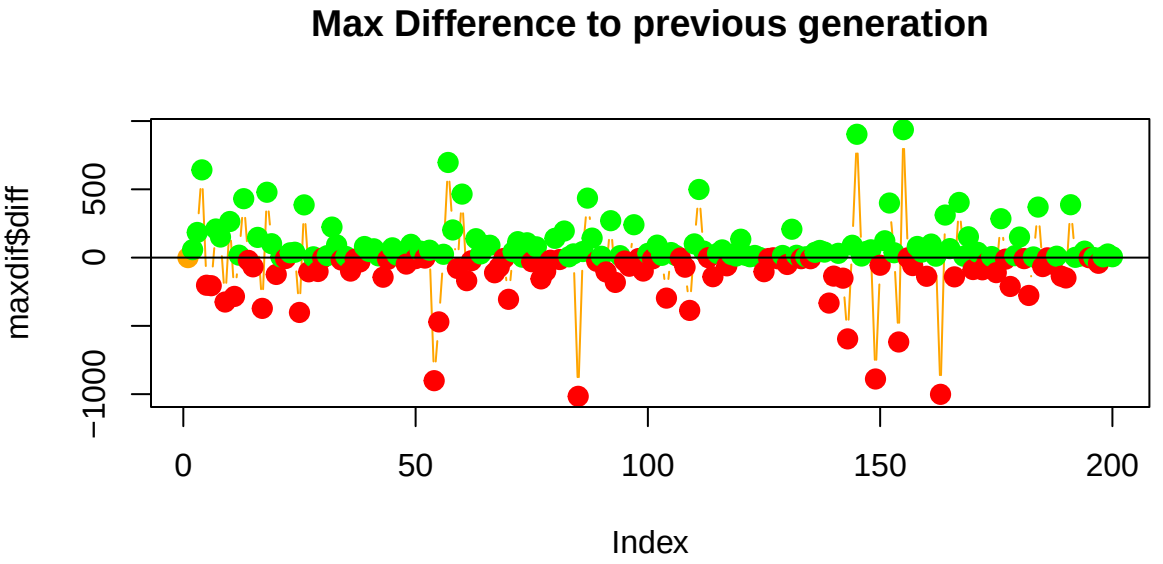

Efficiency
Efficiency in %
60
70
80
90
1
36
77
124
177
Generation

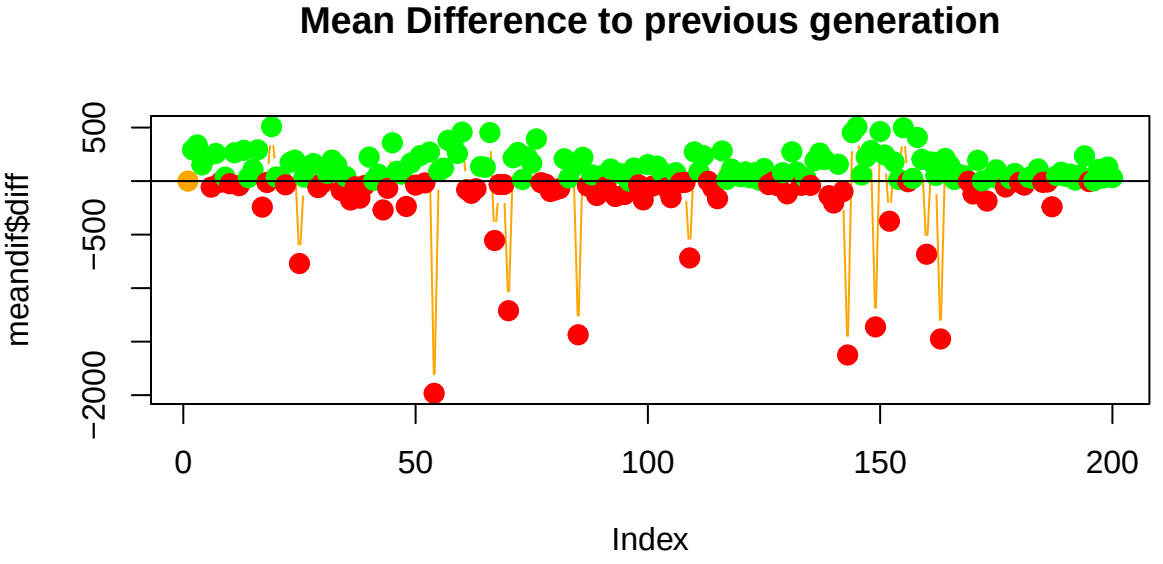

Energy
Energy in kW
14000
16000
18000
20000
1
36
77
124
177
Generation

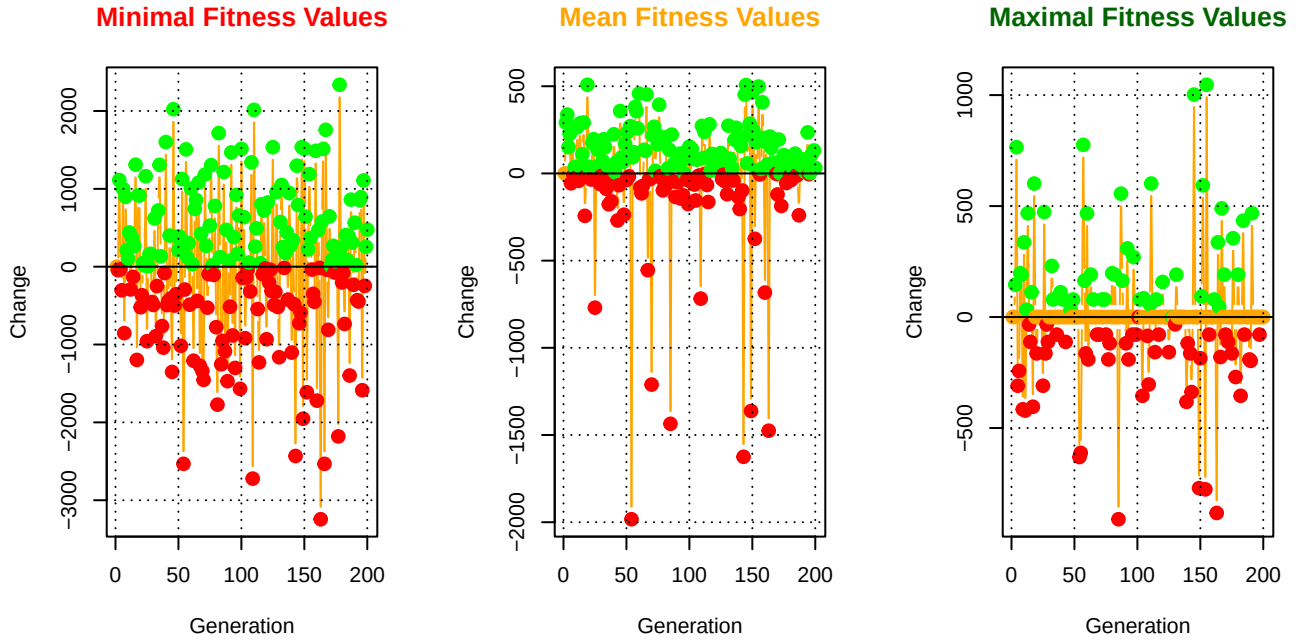

Standard Deviation Fitness
Standard Deviation of Population
600
800
1000
1200
0
50
100
200
Generation

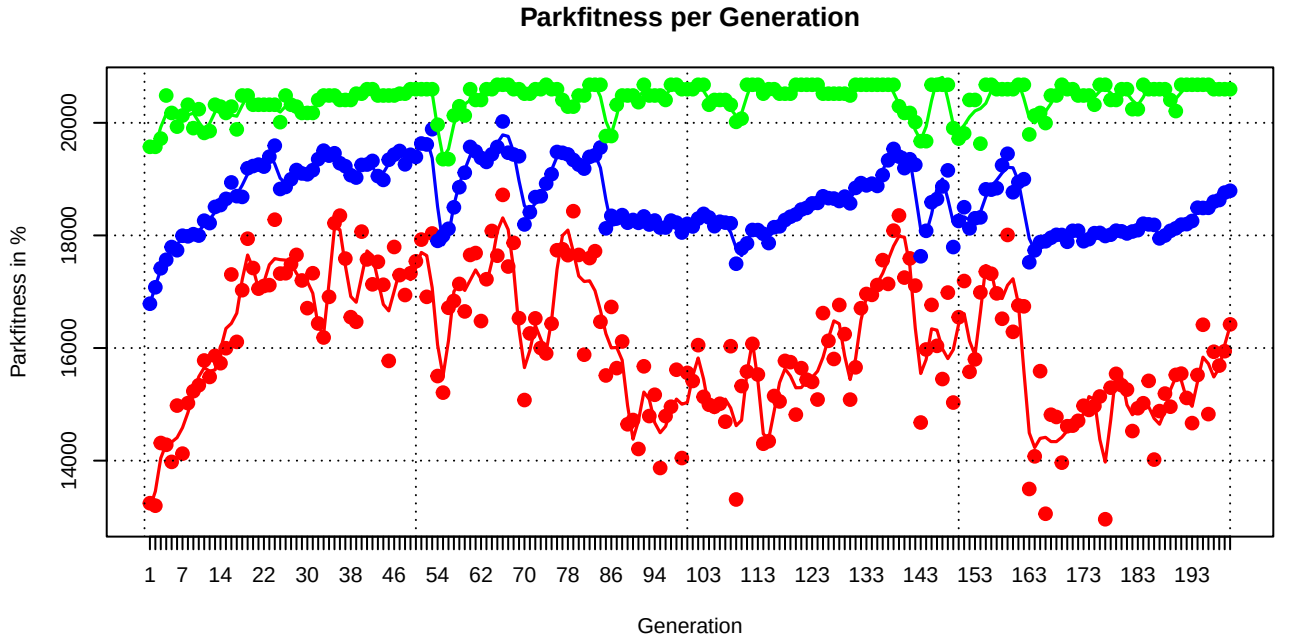

Standard Deviation Efficiency
Standard Deviation of Population
3
4
5
6
0
50
100
200
Generation

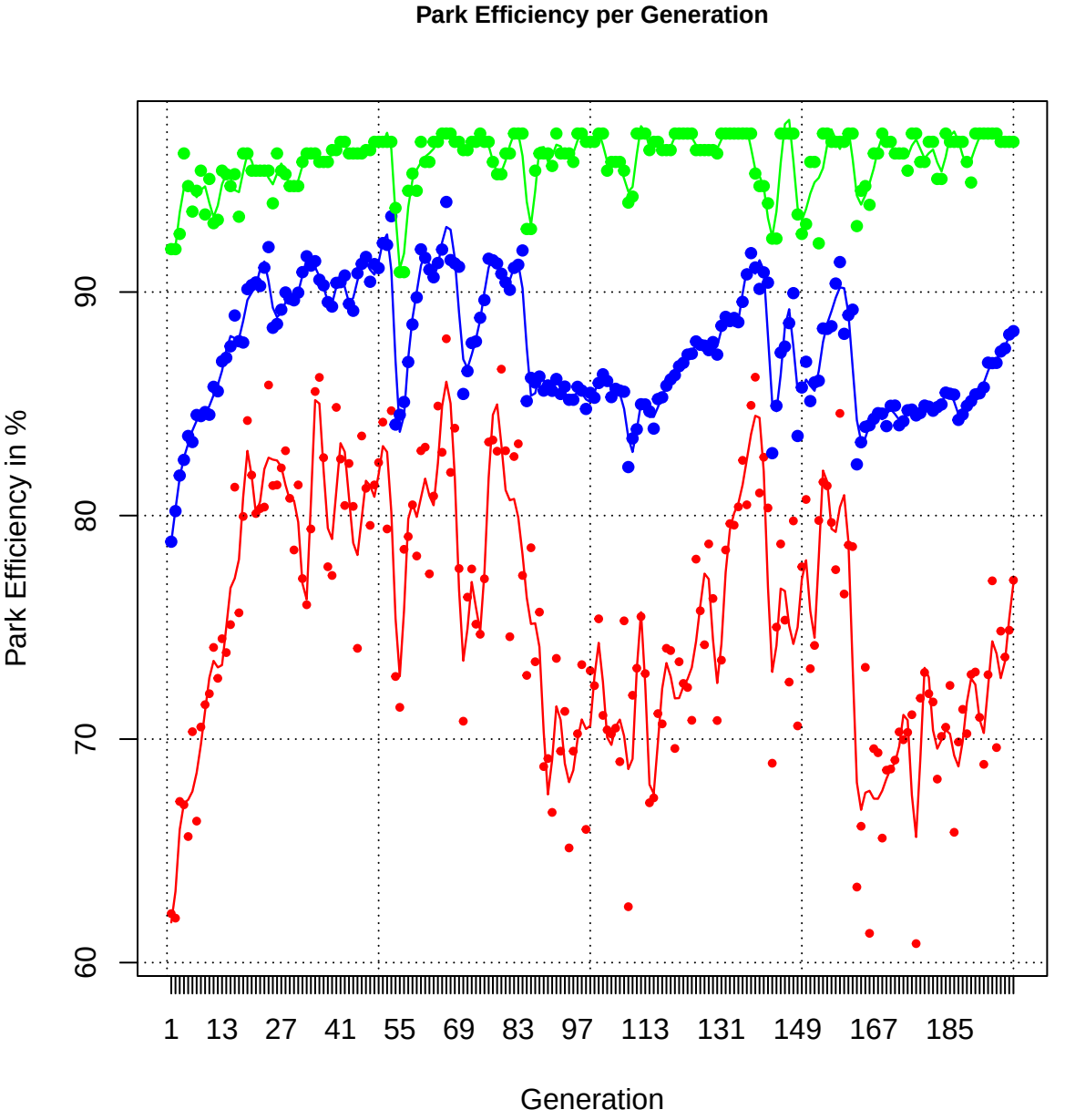

Standard Deviation Energy
Standard Deviation of Population
600
800
1000
1200
0
50
100
200
Generation

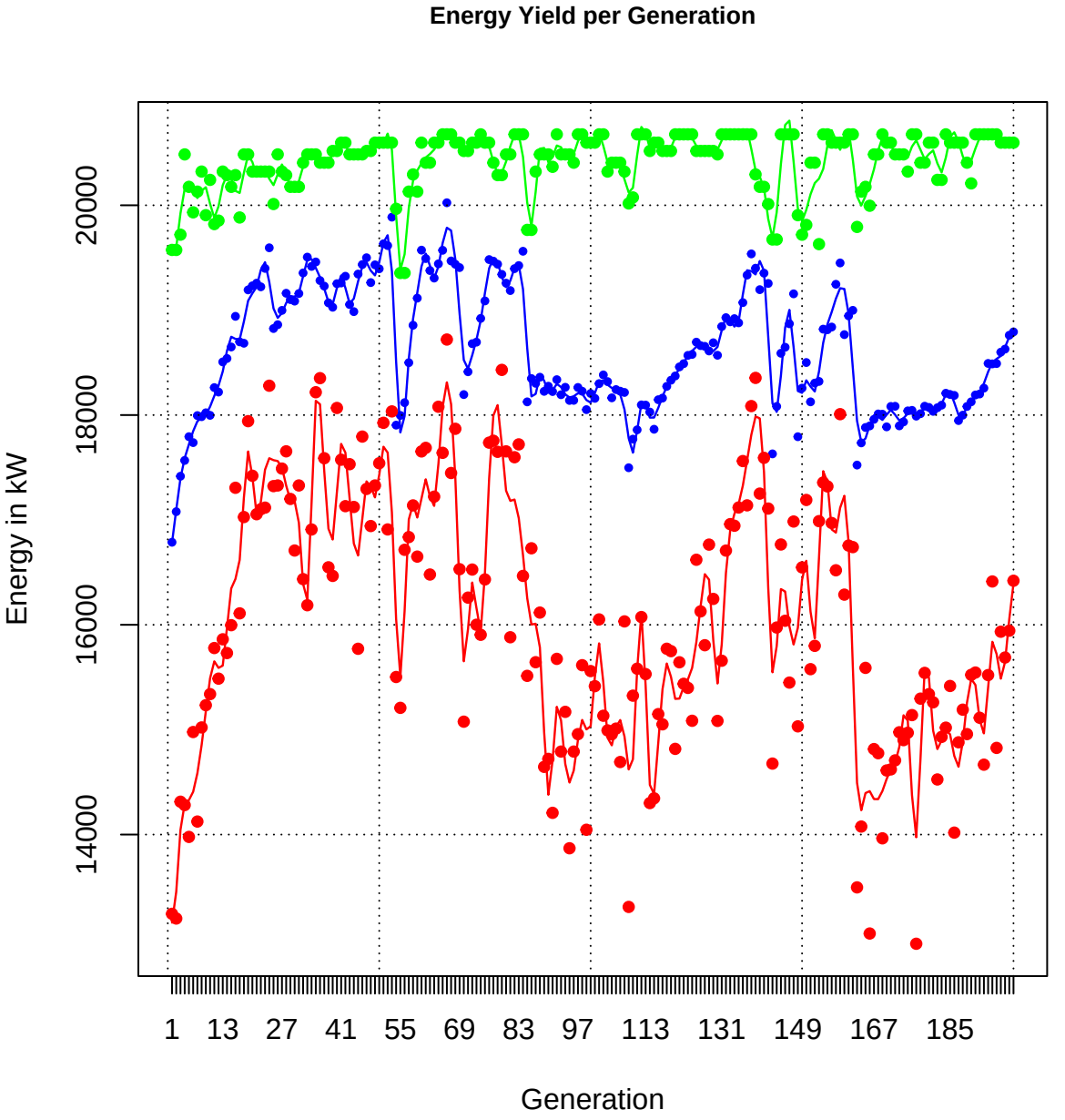

Max Difference to previous generation
maxdif$diff
−1000
0
500
0
50
100
150
200
Index

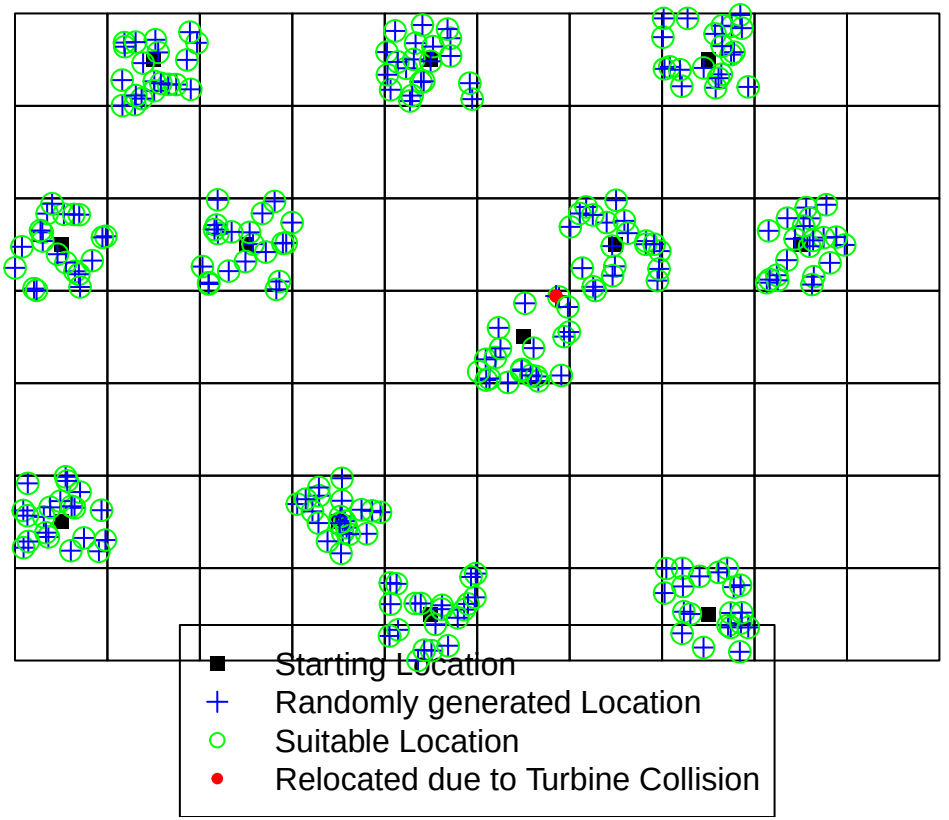

Mean Difference to previous generation
meandif$diff
−2000
−500
500
0
50
100
150
200
Index

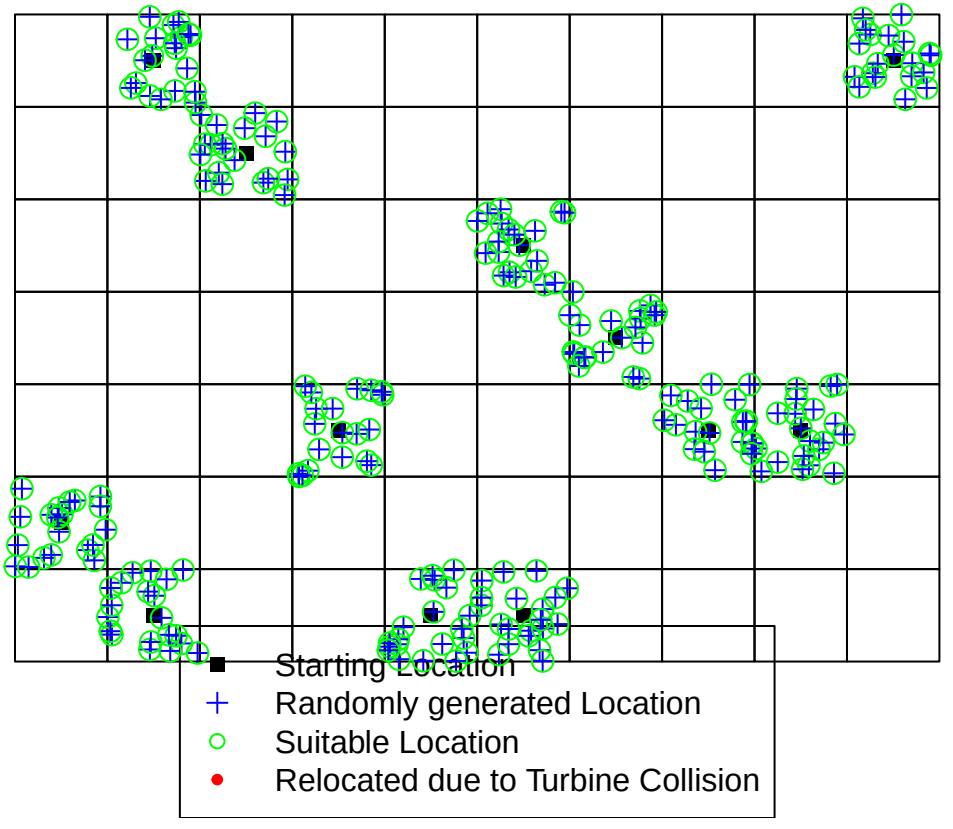

Minimal Fitness Values
Mean Fitness Values
Maximal Fitness Values
Change
Generation
0
50
100
150
200
−3000
−2000
−1000
0
1000
2000
−2000
−1500
−1000
−500
0
500
−500
0
500
1000

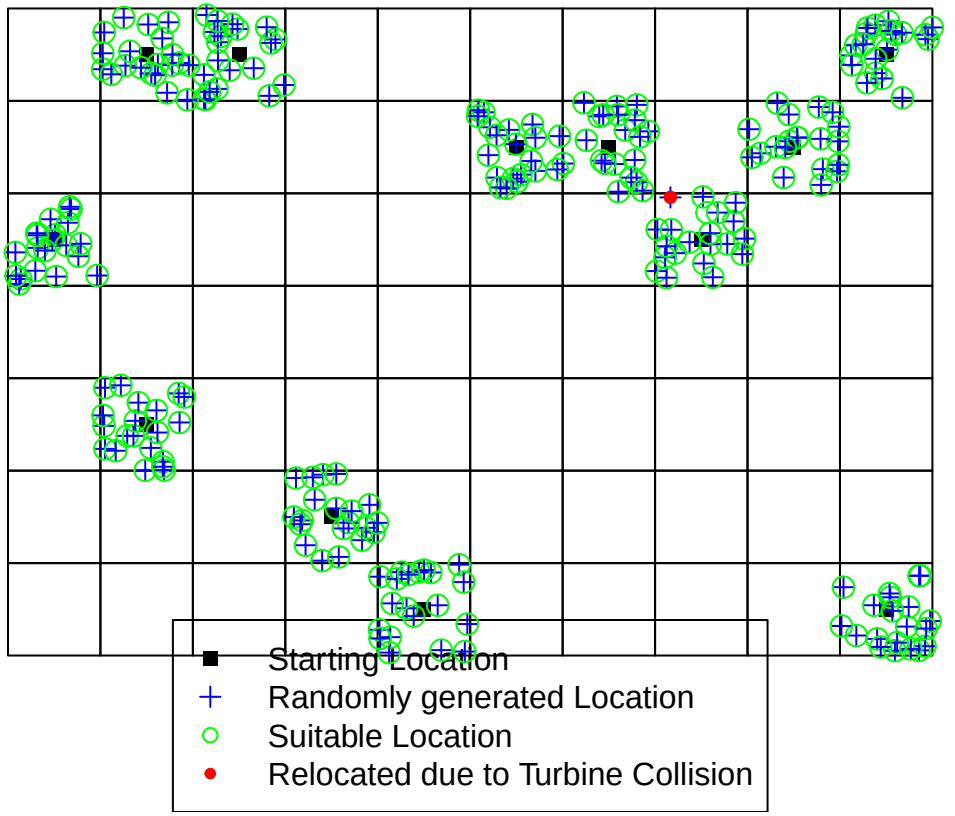

Parkfitness per Generation
Parkfitness in %
Generation
14000
16000
18000
20000
1
7
14
22
30
38
46
54
62
70
78
86
94
103
113
123
133
143
153
163
173
183
193

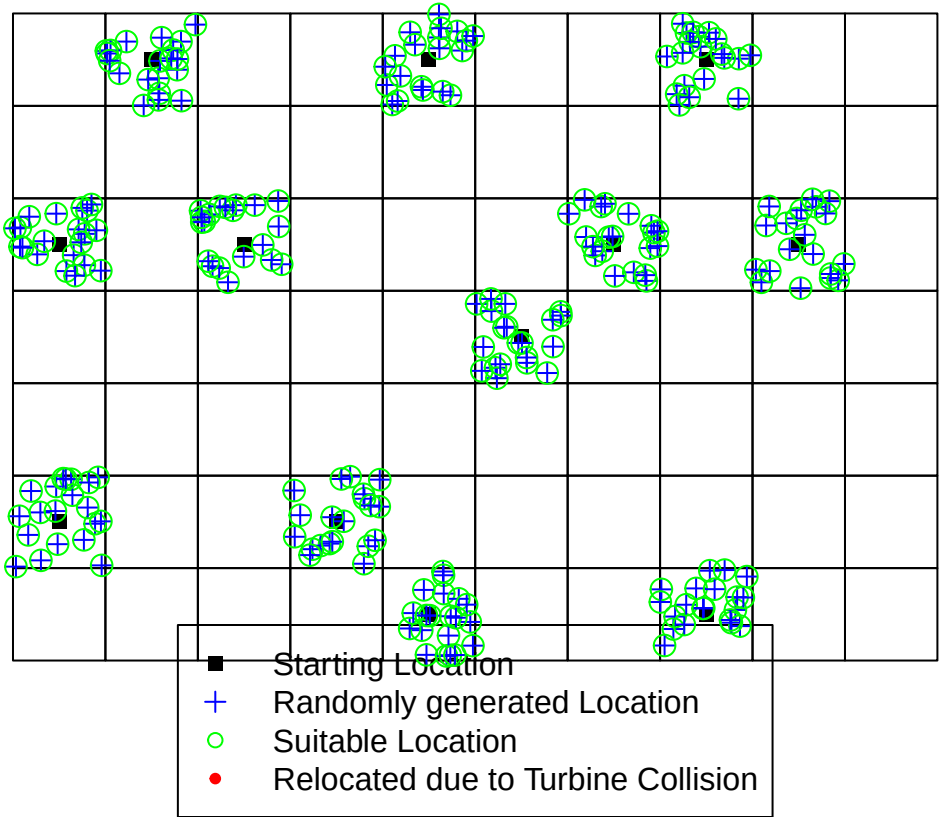

Park Efficiency per Generation
Park Efficiency in %
60
70
80
90
1
13
27
41
55
69
83
97
113
131
149
167
185
Generation

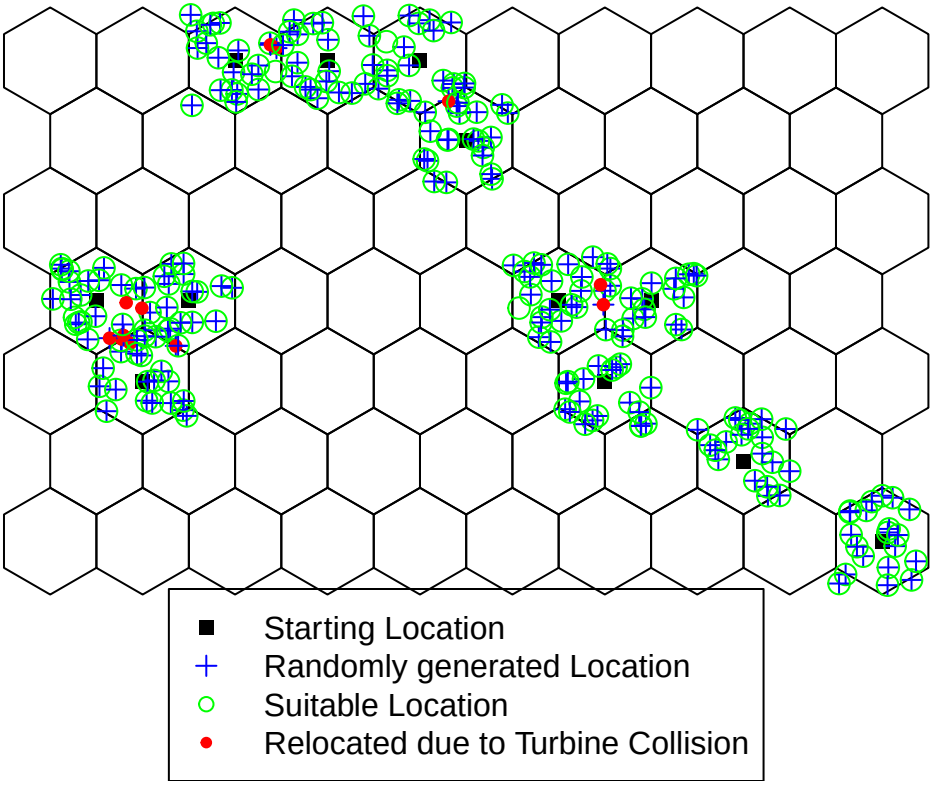

Energy Yield per Generation
Energy in kW
20000
18000
16000
14000
1
13
27
41
55
69
83
97
113
131
149
167
185
Generation


Starting Location
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision

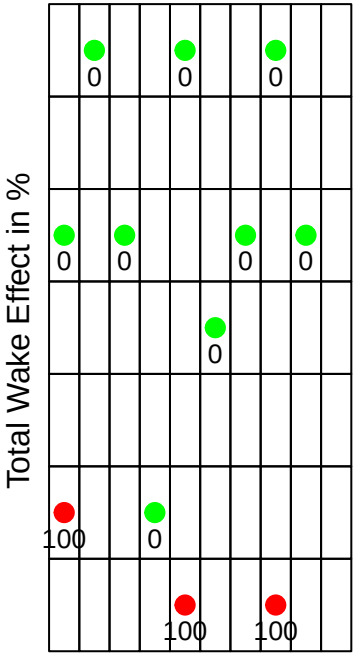

Starting Location
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision


Starting Location
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision


Starting Location
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision

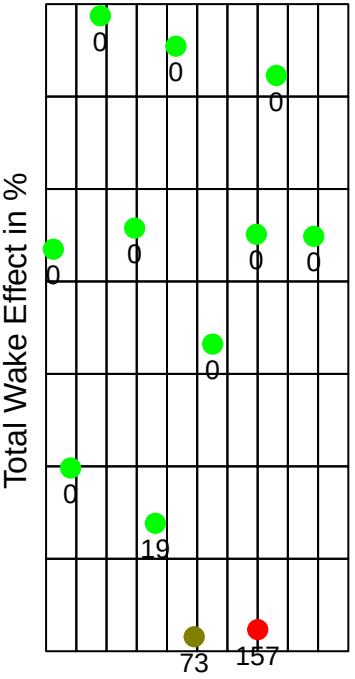

Starting Location
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision

Original − Best Energy: 1
Energy Output 20011.7 kW
Efficiency: 93.97

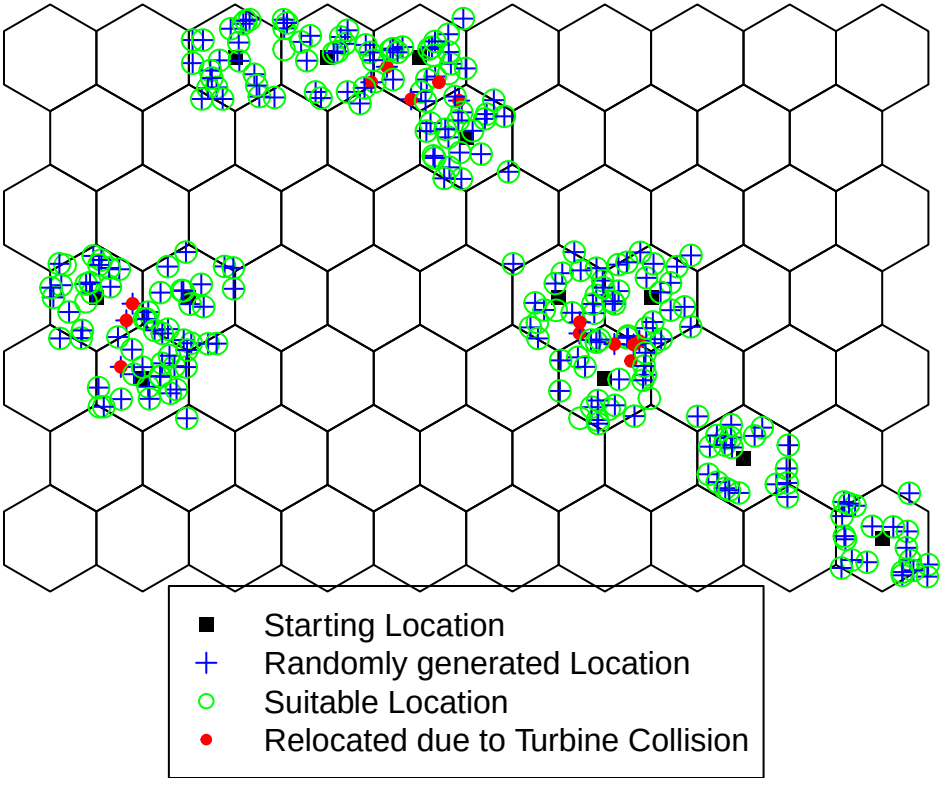


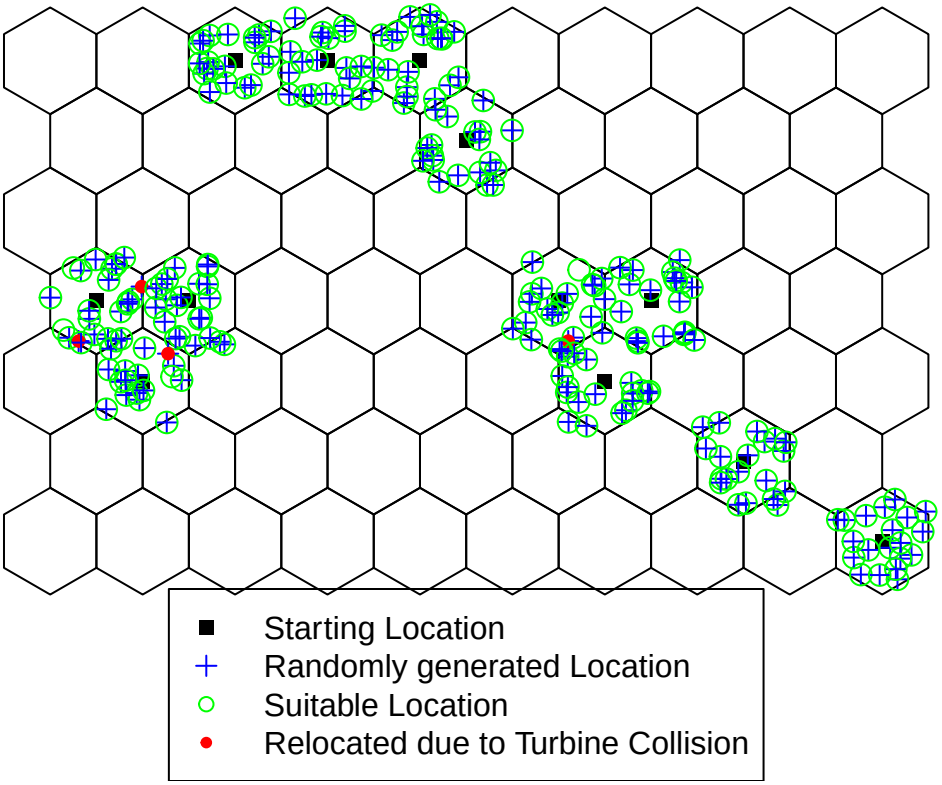
minimal Distance 212.13
mean Distance 707.05

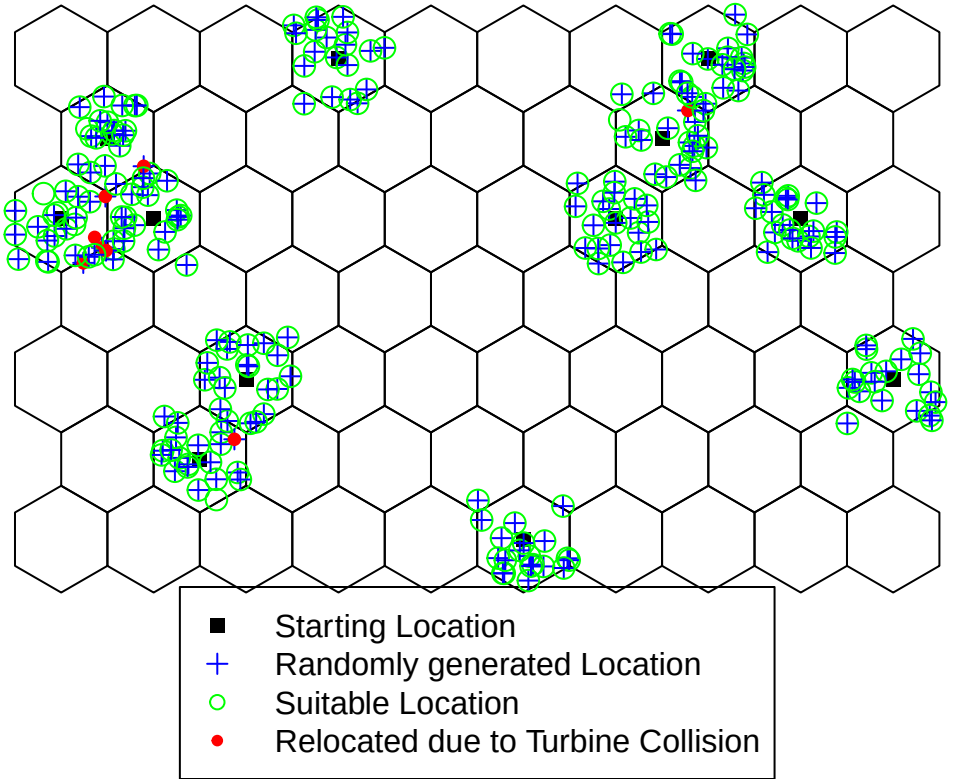
Random Search − Best Energy: 1
Energy Output 20516.34 kW
Efficiency: 96.34



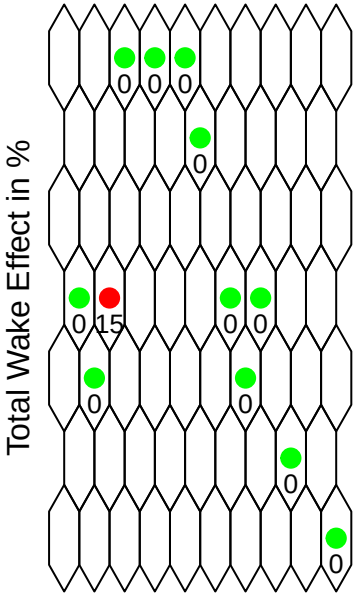
minimal Distance 266.45
mean Distance 716.4


Starting Location
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision


Starting Location
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision

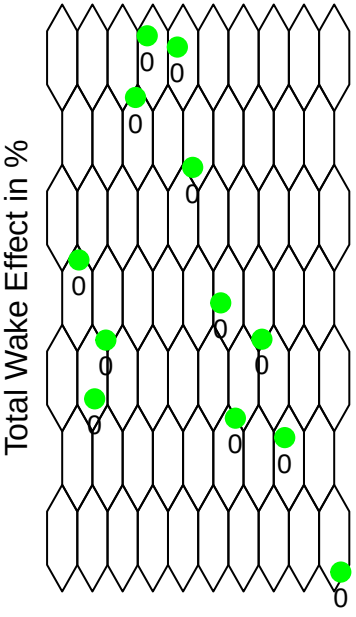

Starting Location
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision

Original − Best Energy: 1
Energy Output 21161.31 kW
Efficiency: 99.37



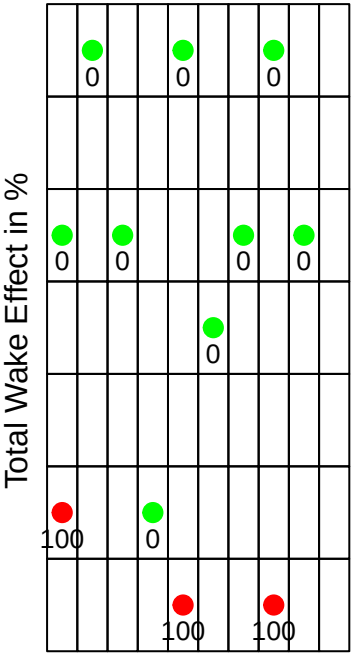
minimal Distance 150
mean Distance 611.31

Random Search − Best Energy: 1
Energy Output 21295.03 kW
Efficiency: 100



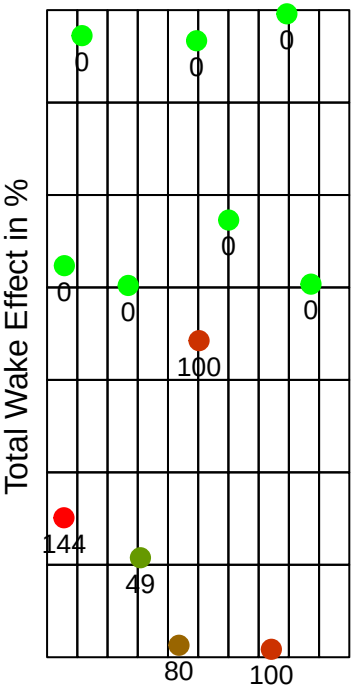
minimal Distance 110.24
mean Distance 614.99

Original − Best Energy: 2
Energy Output 20011.7 kW
Efficiency: 93.97



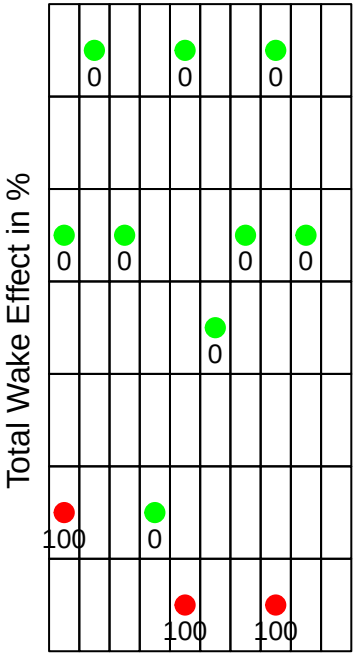
minimal Distance 212.13
mean Distance 707.05

Random Search − Best Energy: 2
Energy Output 19098.84 kW
Efficiency: 89.69



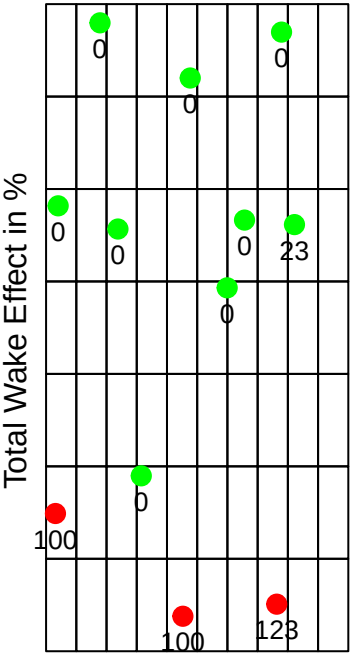
minimal Distance 238.22
mean Distance 743.36

Original − Best Energy: 1
Energy Output 20011.7 kW
Efficiency: 93.97



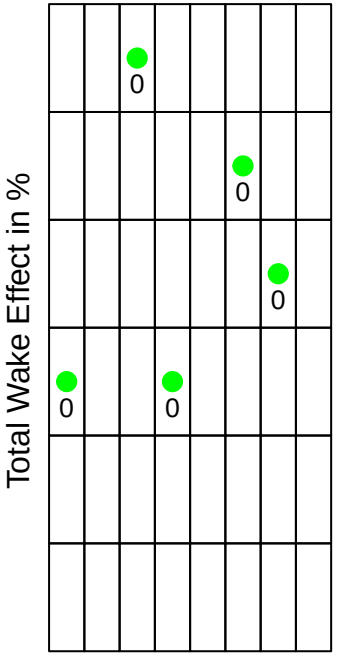
minimal Distance 212.13
mean Distance 707.05

Random Search − Best Energy: 1
Energy Output 19813.3 kW
Efficiency: 93.04



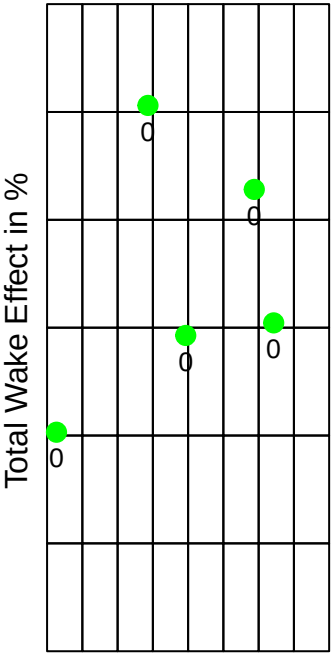
minimal Distance 139.61
mean Distance 718.45

Original − Best Energy: 2
Energy Output 12077.04 kW
Efficiency: 100



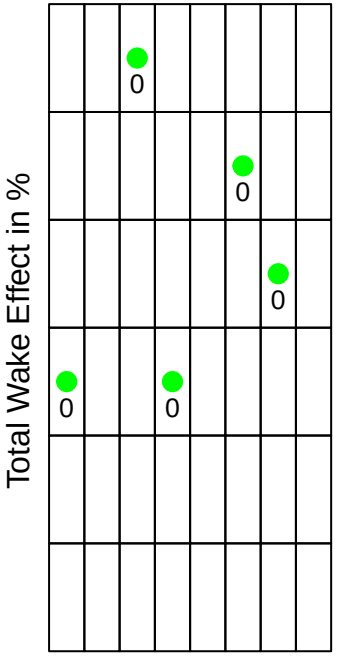
minimal Distance 247.49
mean Distance 634.81

Random Search − Best Energy: 2
Energy Output 12077.04 kW
Efficiency: 100



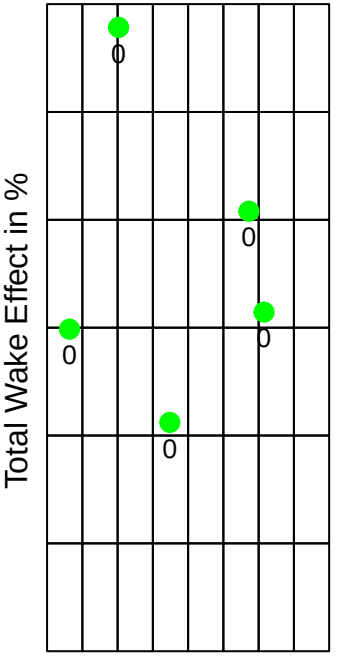
minimal Distance 237.09
mean Distance 627.7

Original − Best Energy: 1
Energy Output 12077.04 kW
Efficiency: 100

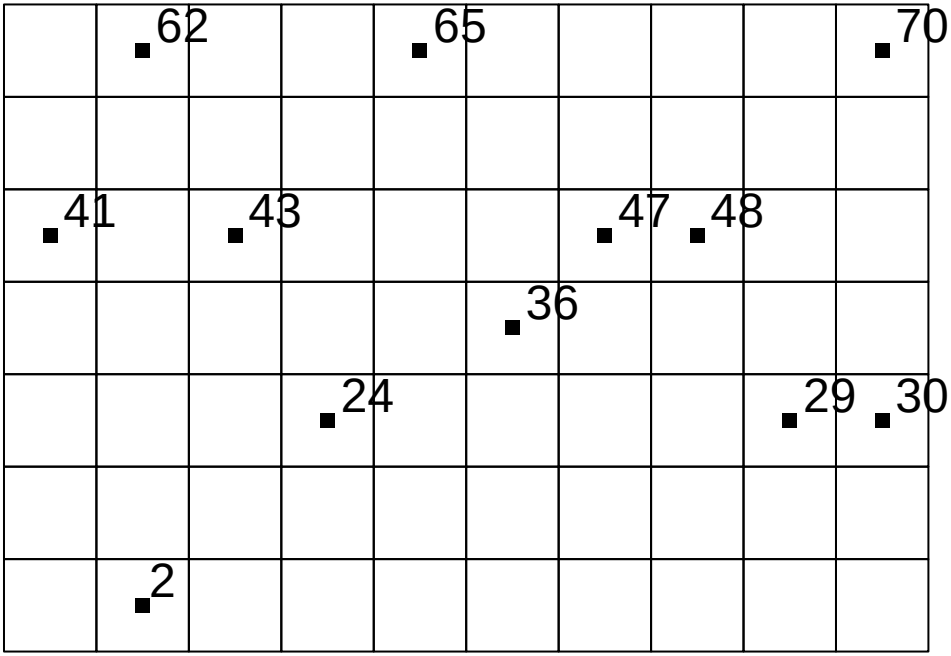


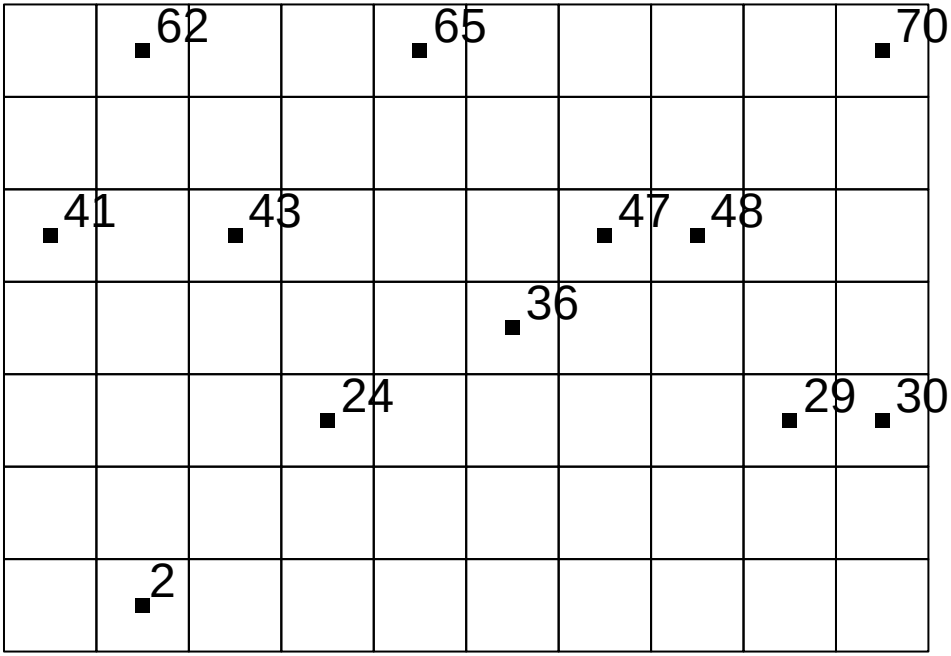
minimal Distance 247.49
mean Distance 634.81

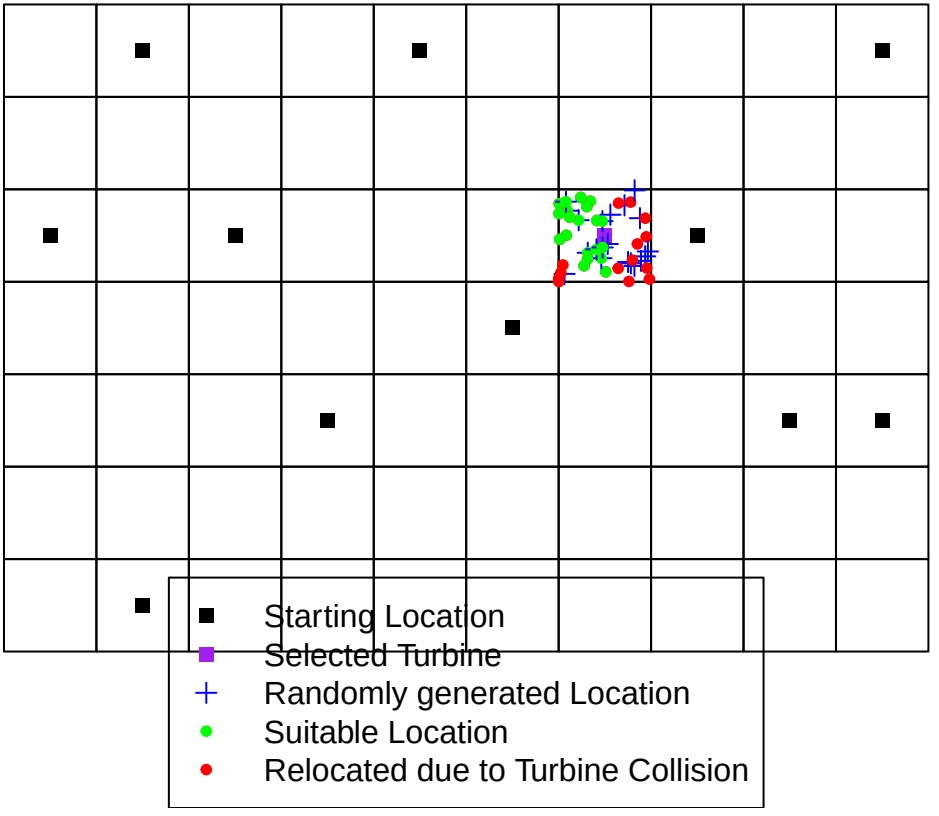
Random Search − Best Energy: 1
Energy Output 12077.04 kW
Efficiency: 100

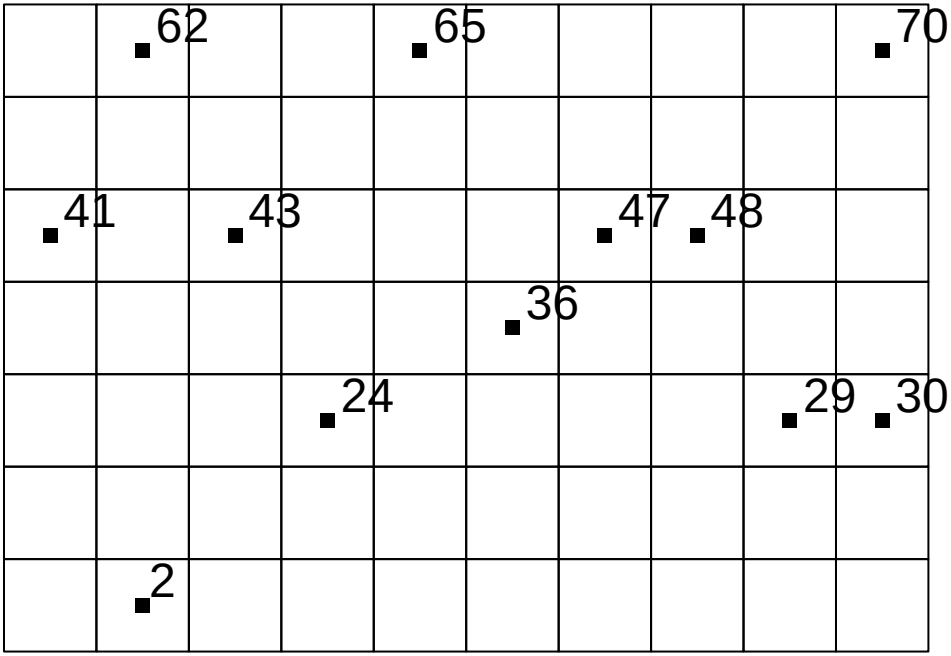


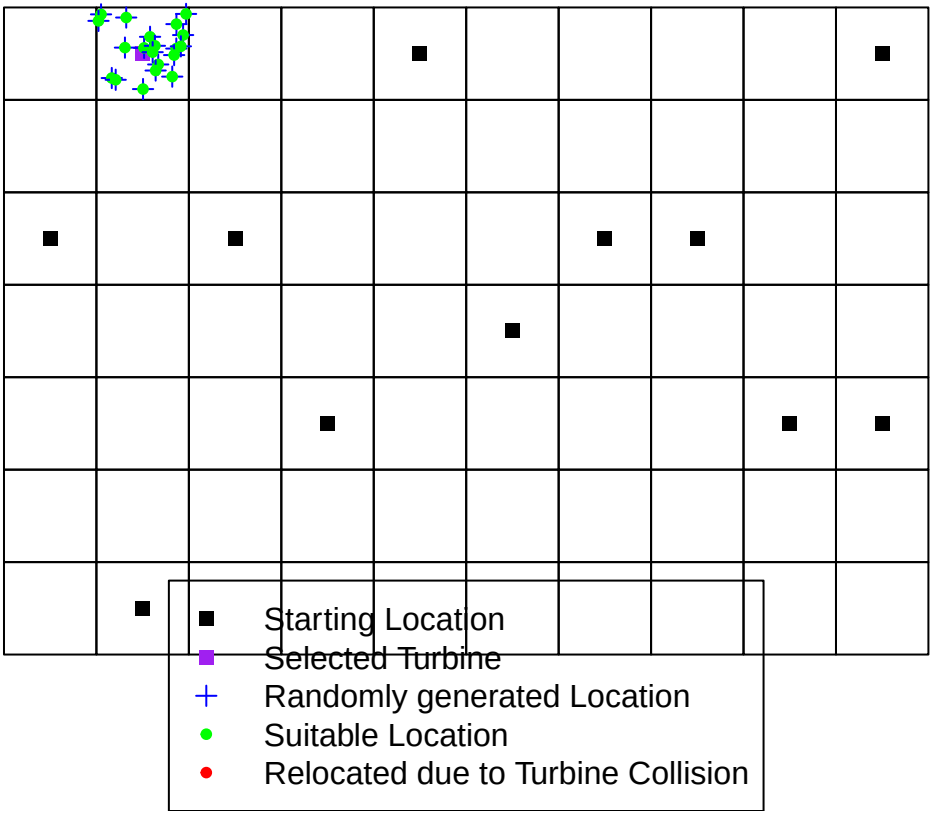
minimal Distance 180.17
mean Distance 640.5

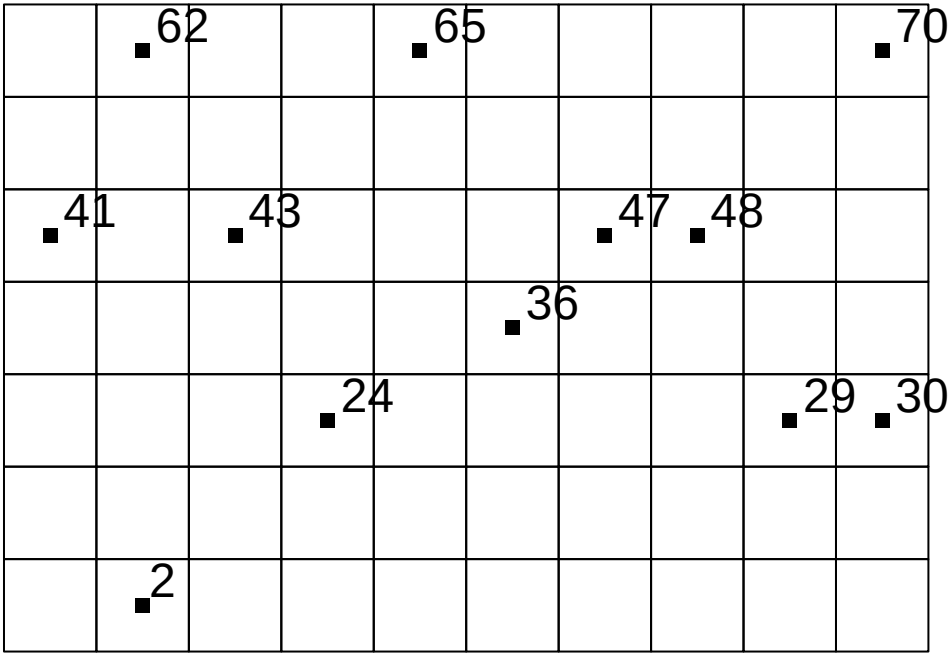

62
65
70
41
43
47
48
36
24
29
30
2

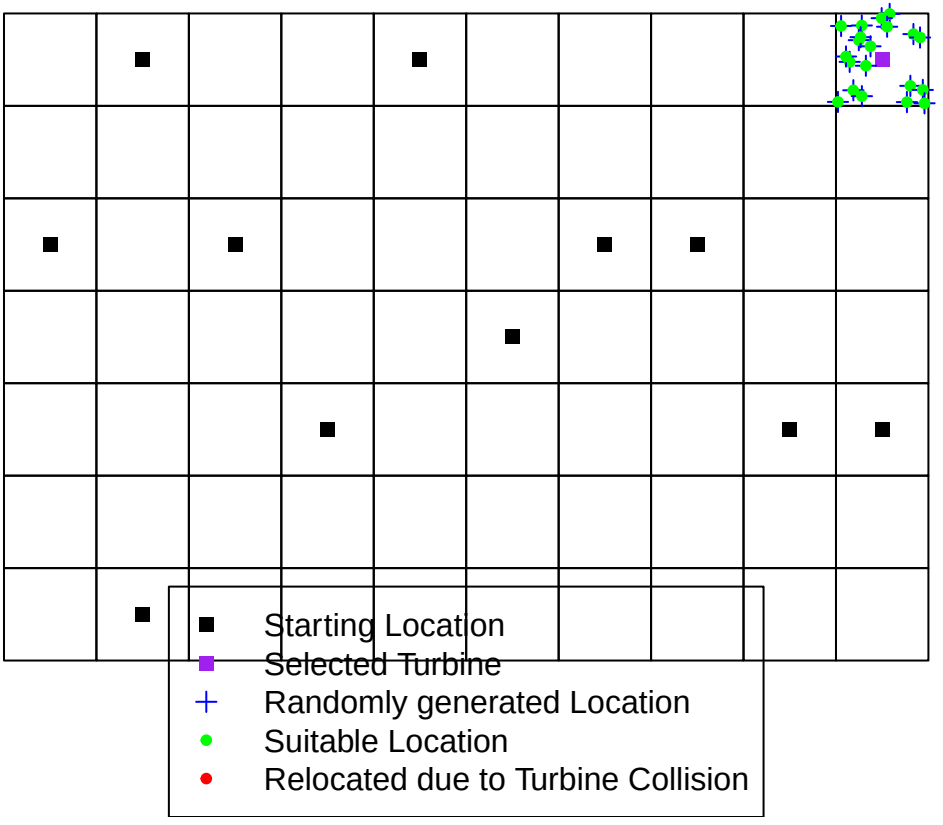

62
65
70
41
43
47
48
36
24
29
30
2

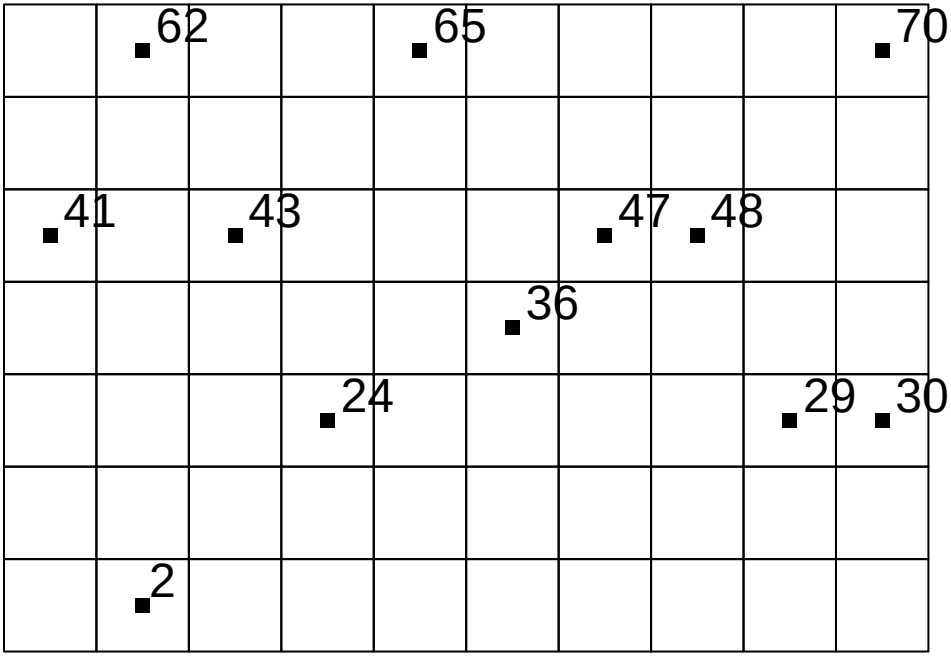

Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision

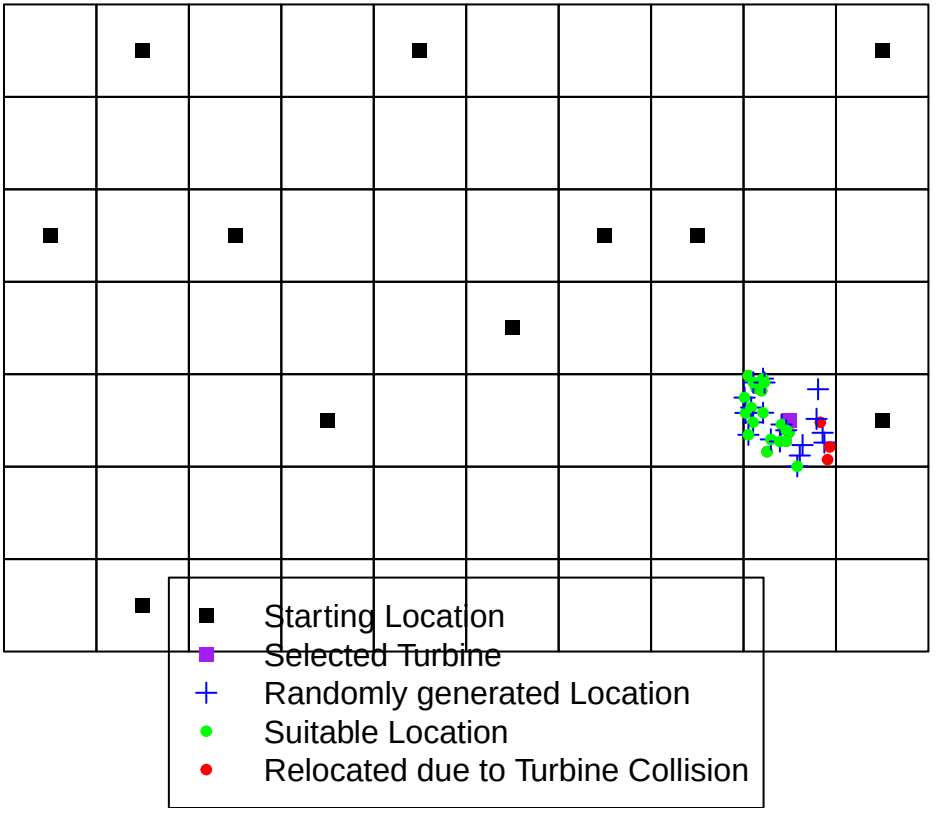

62
65
70
41
43
47
48
36
24
29
30
2

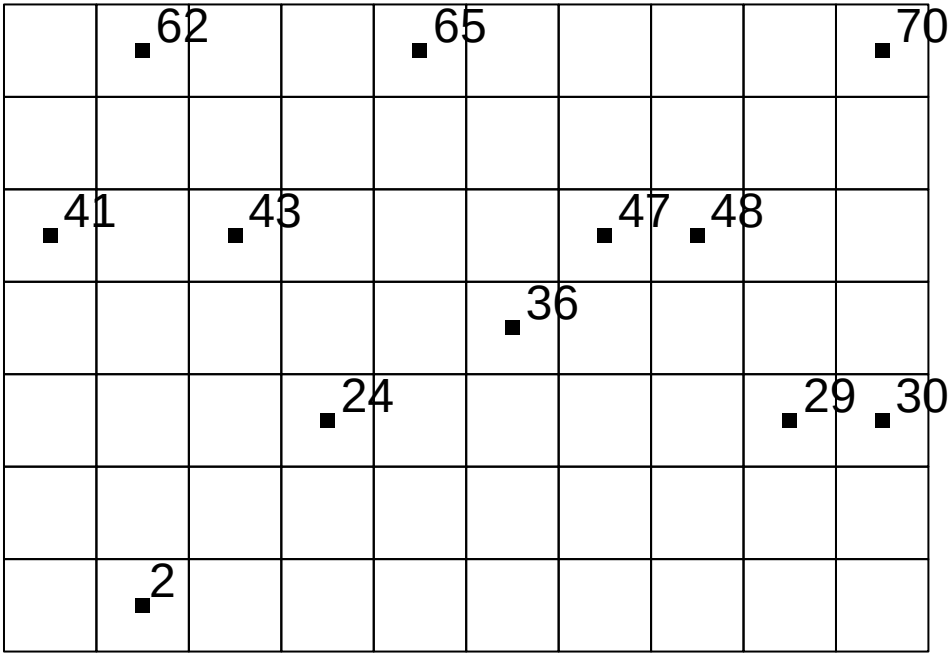

Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision

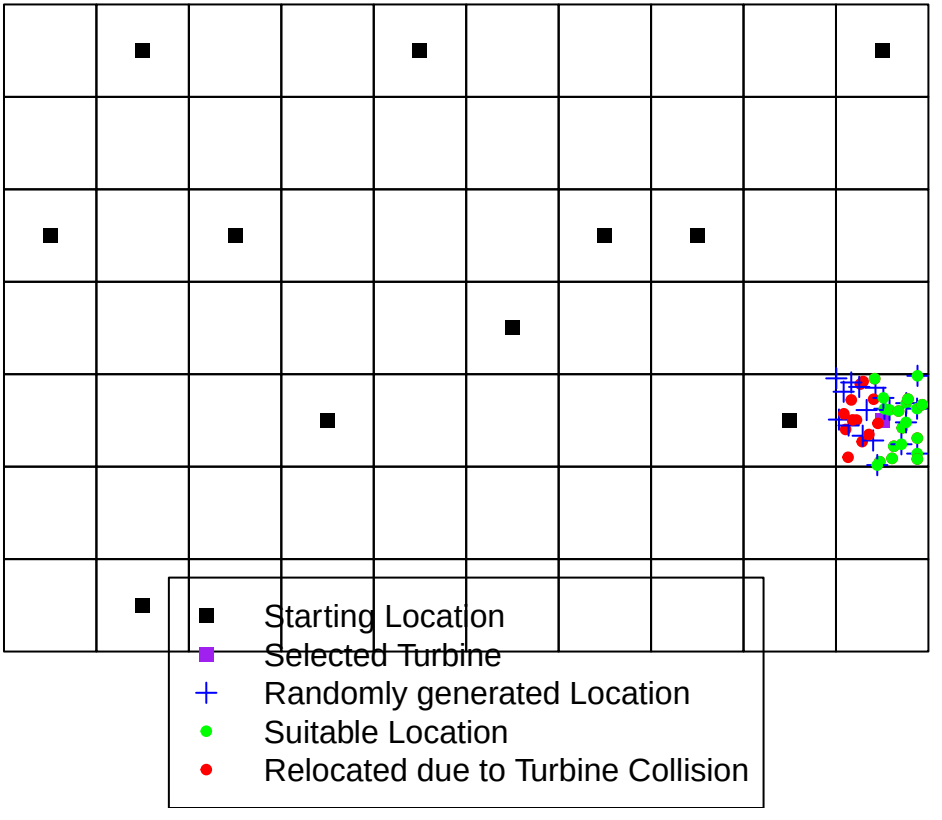

62
65
70
41
43
47
48
36
24
29
30
2

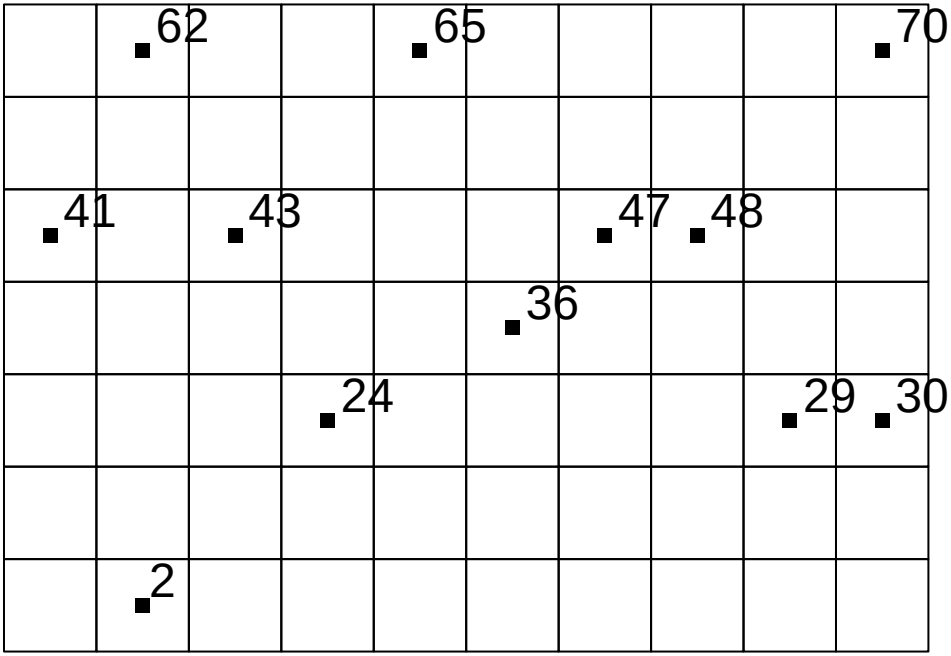

Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision

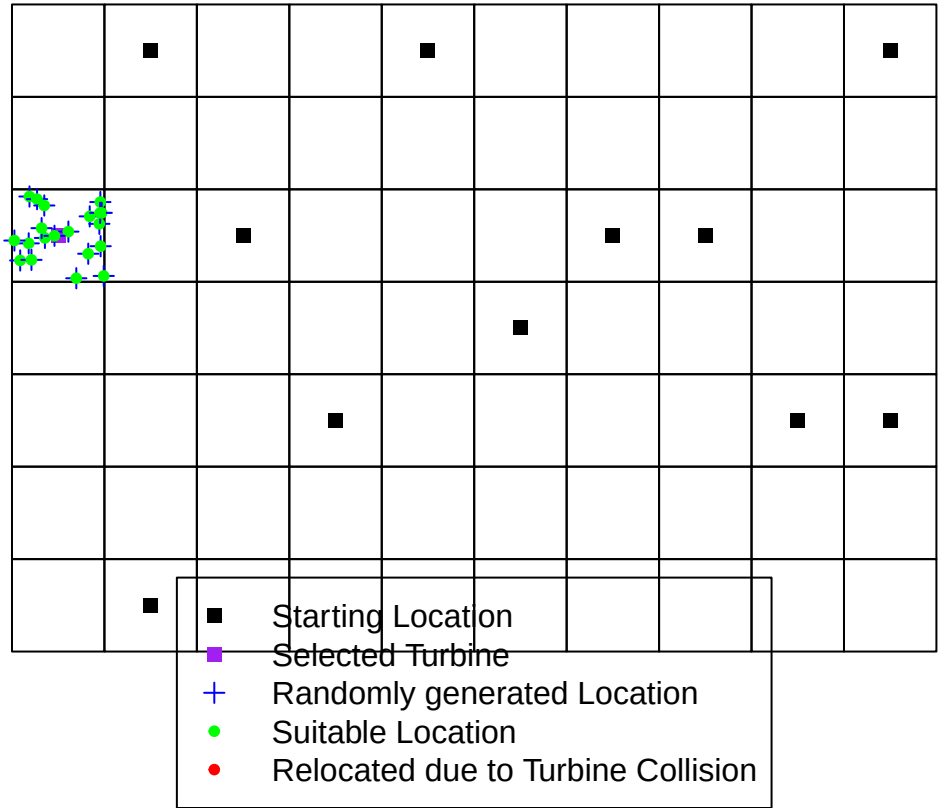

62
65
70
41
43
47
48
36
24
29
30
2

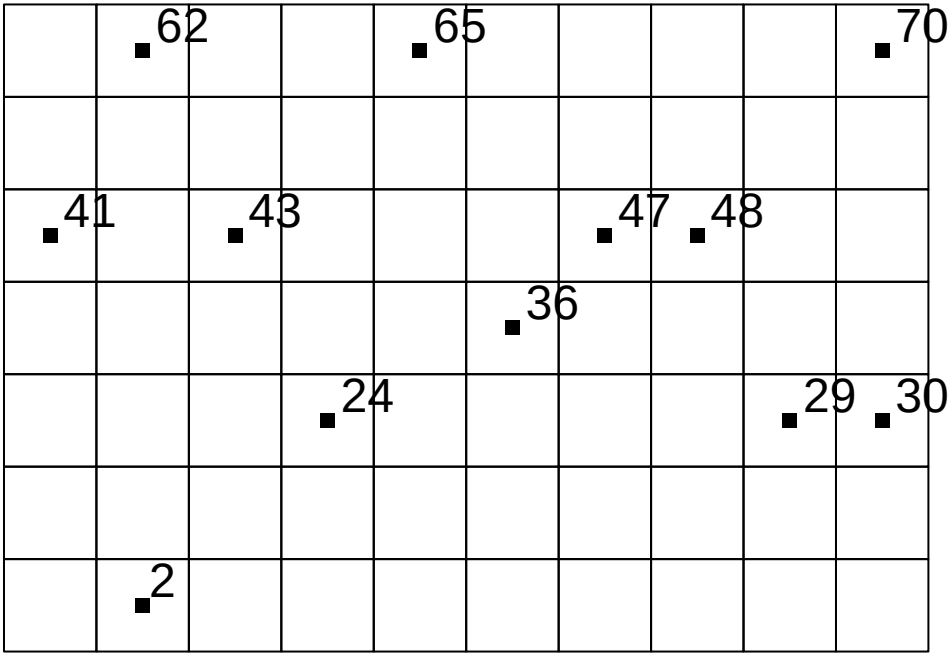

Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision


62
65
70
41
43
47
48
36
24
29
30
2


Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision


62
65
70
41
43
47
48
36
24
29
30
2


Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision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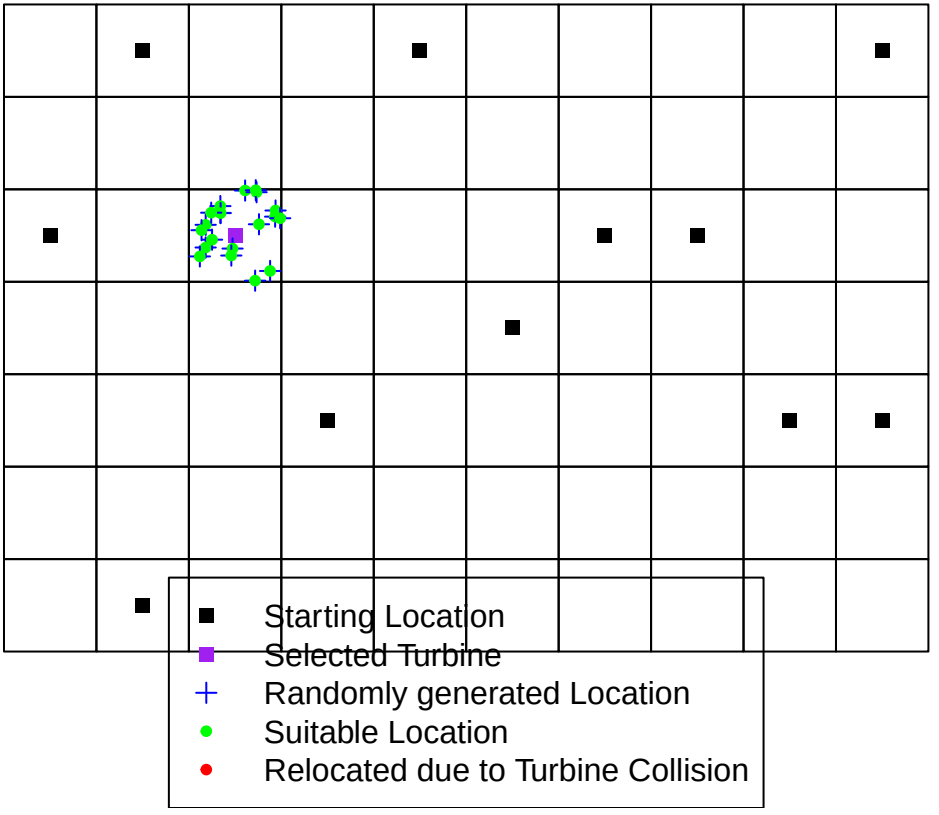
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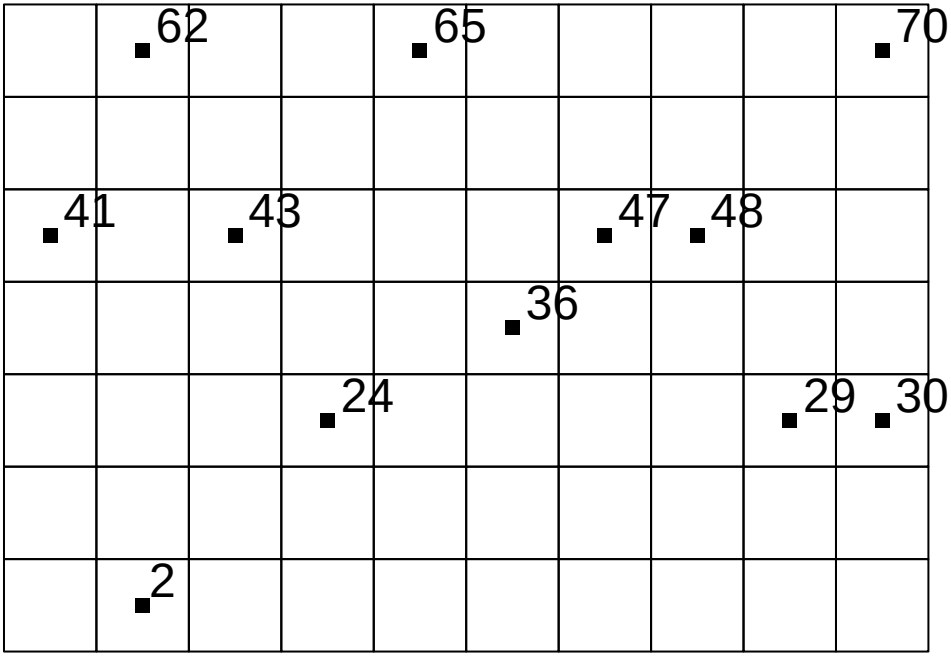
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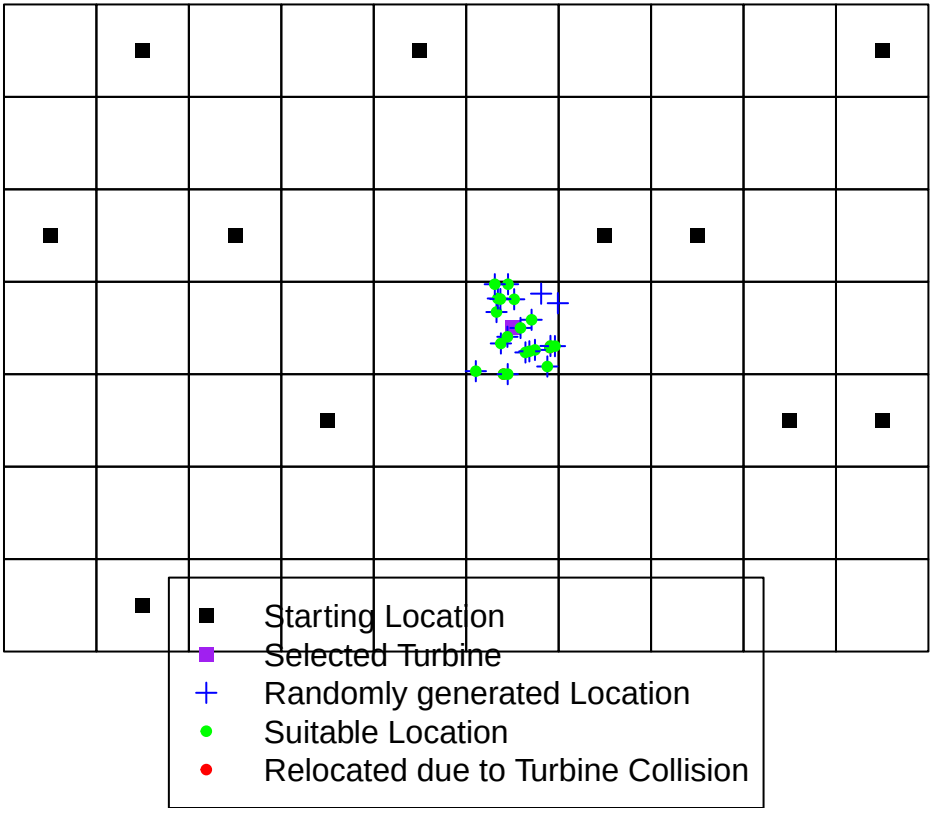
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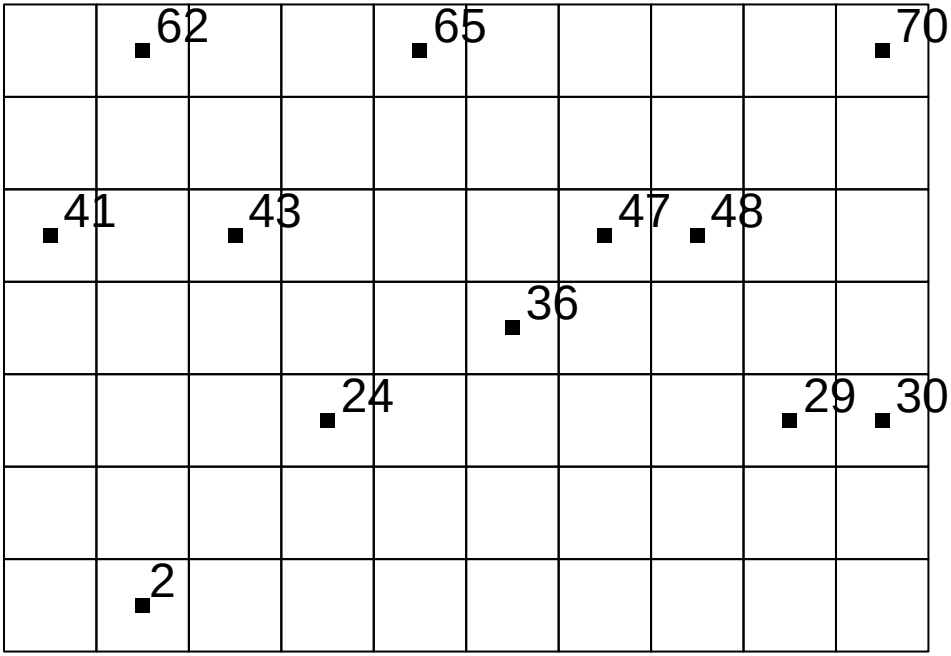
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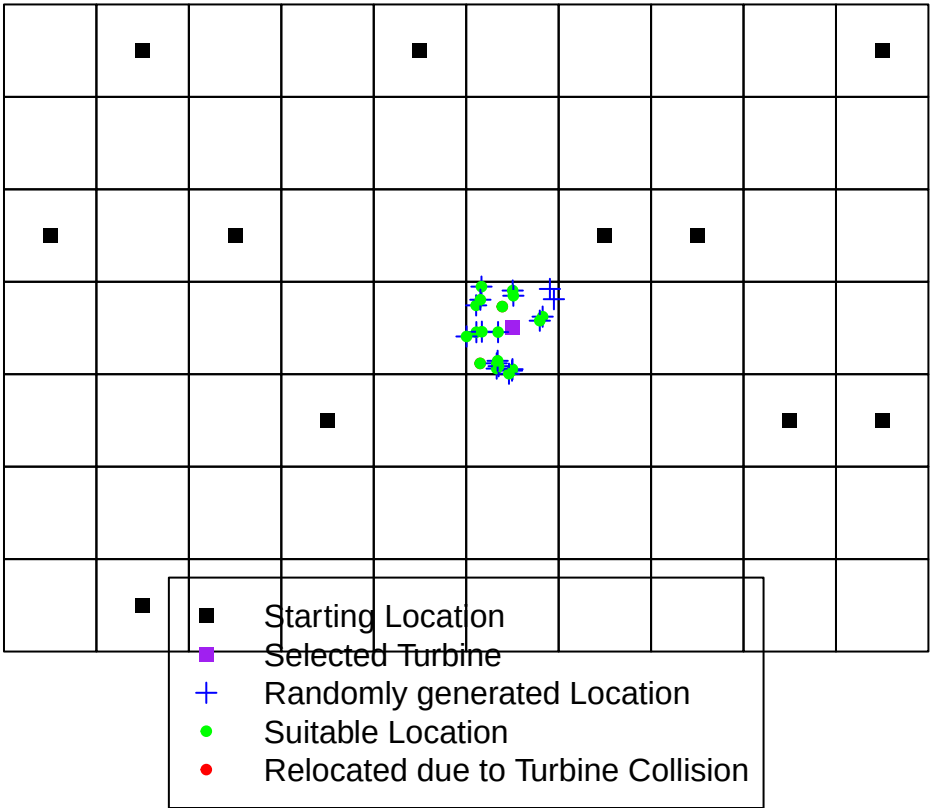
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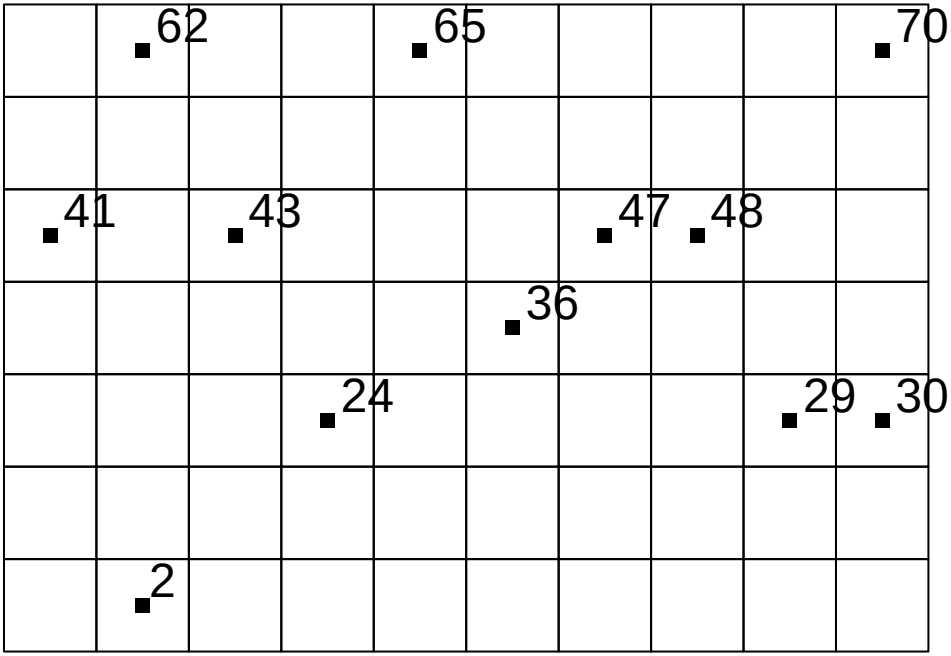
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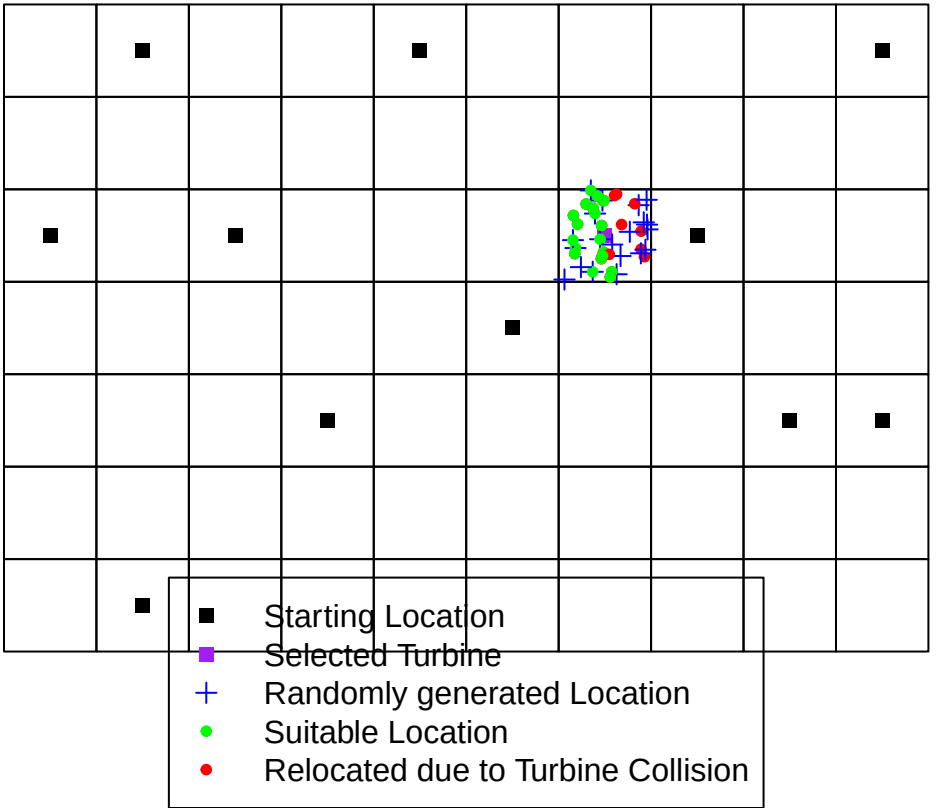
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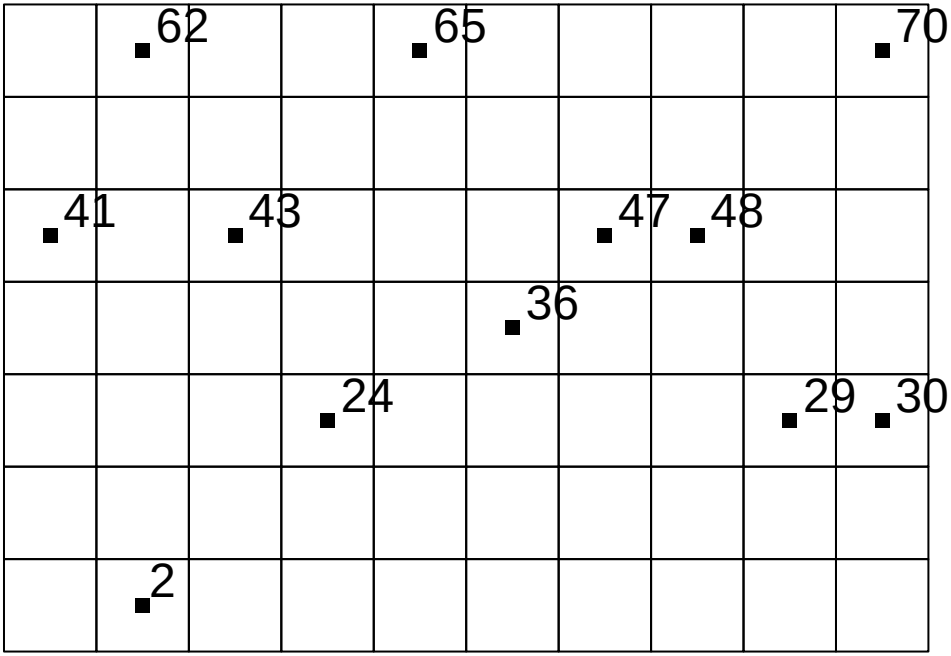
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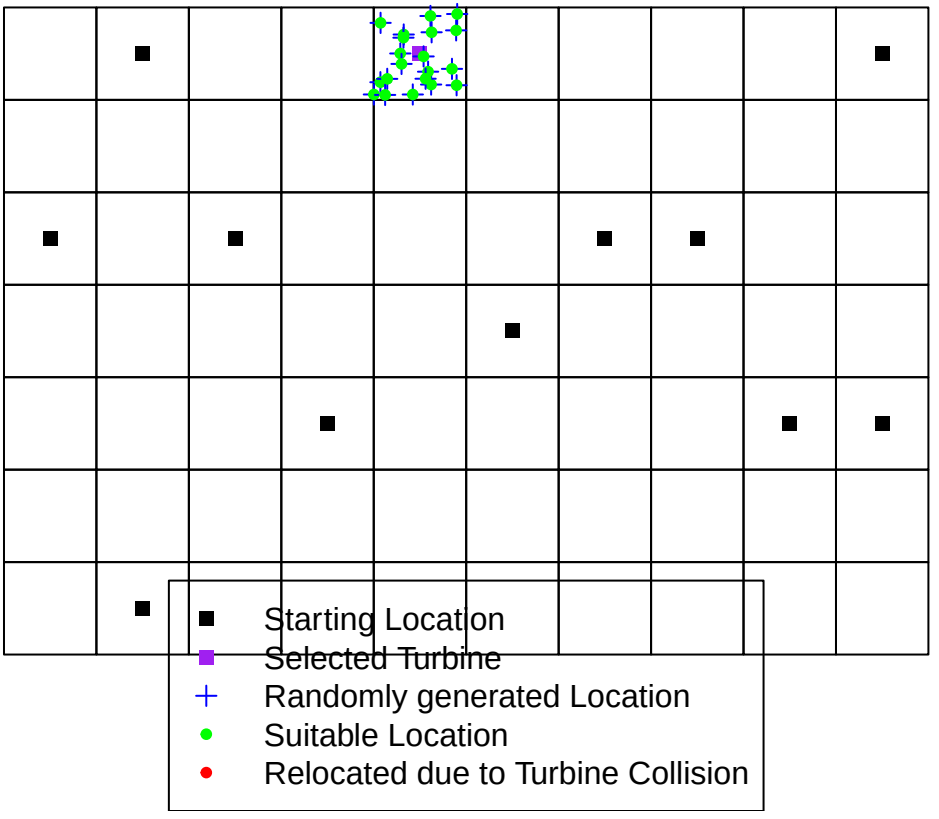
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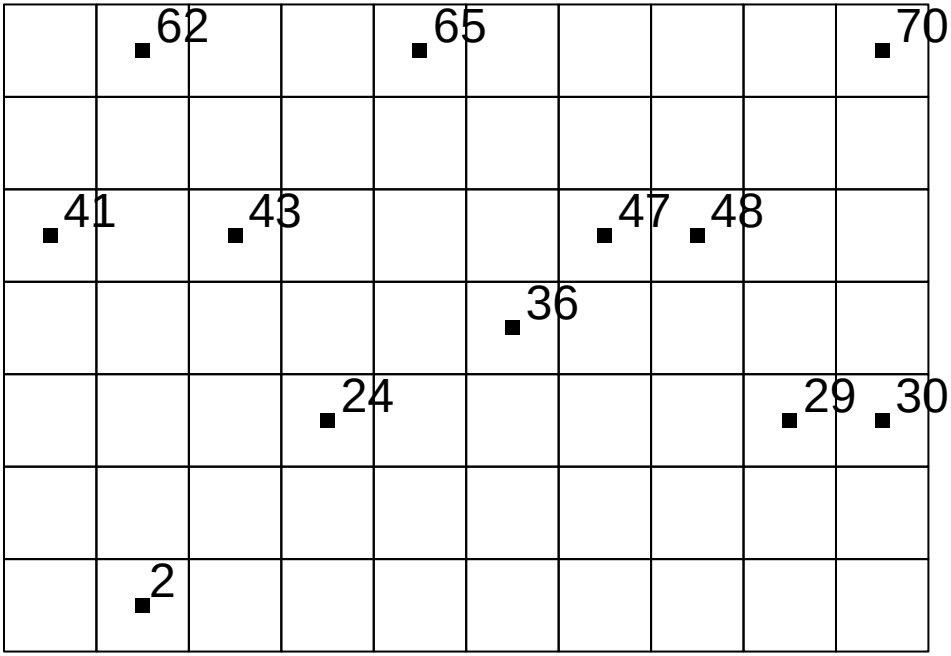
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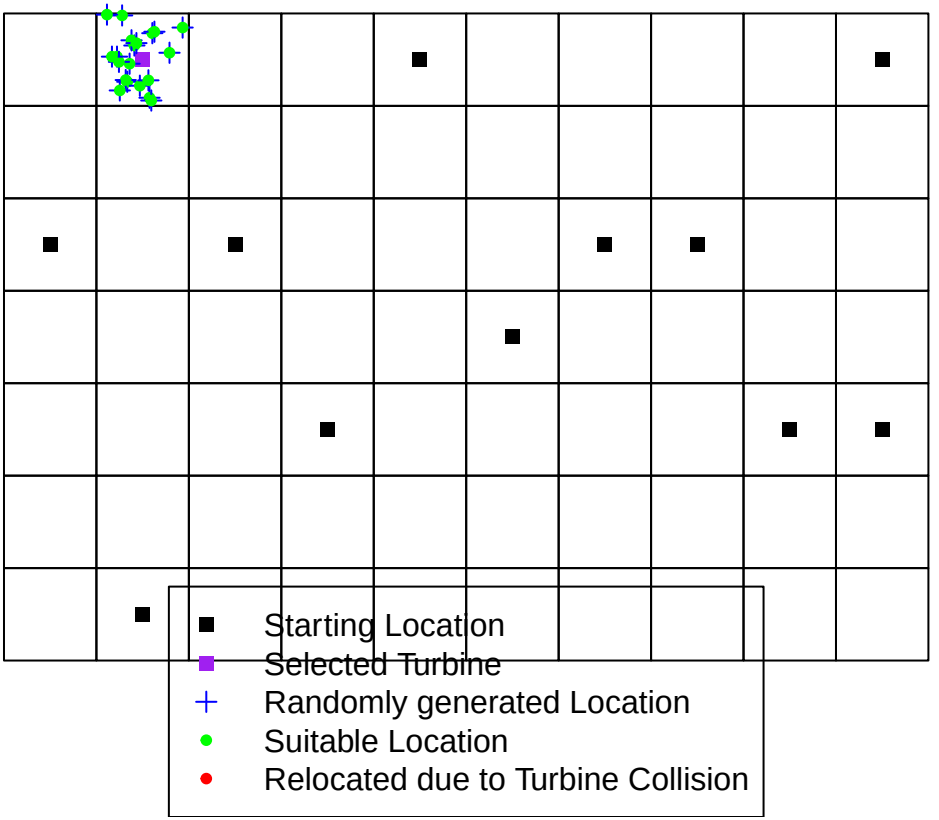
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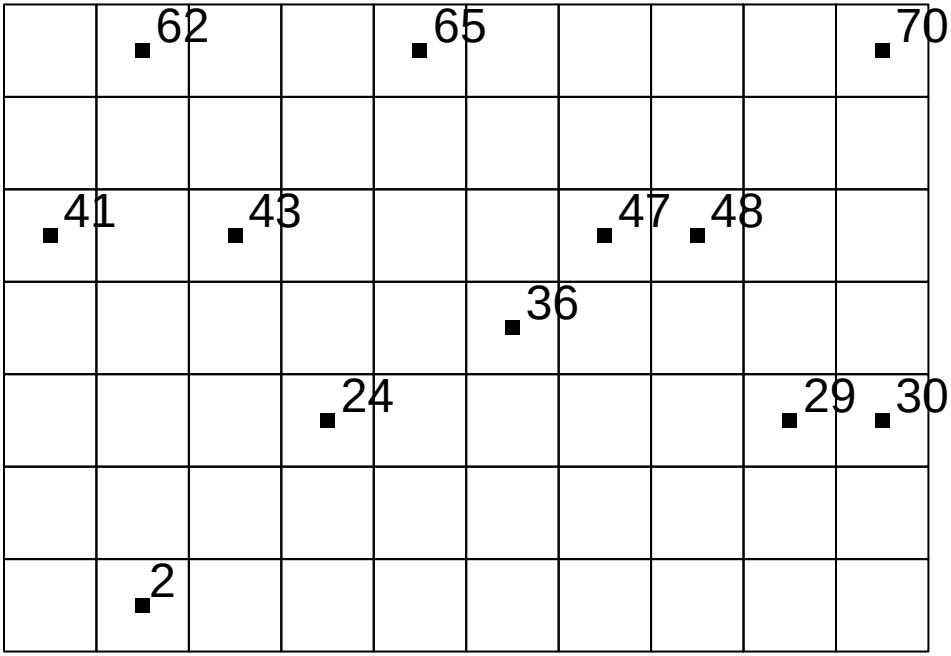
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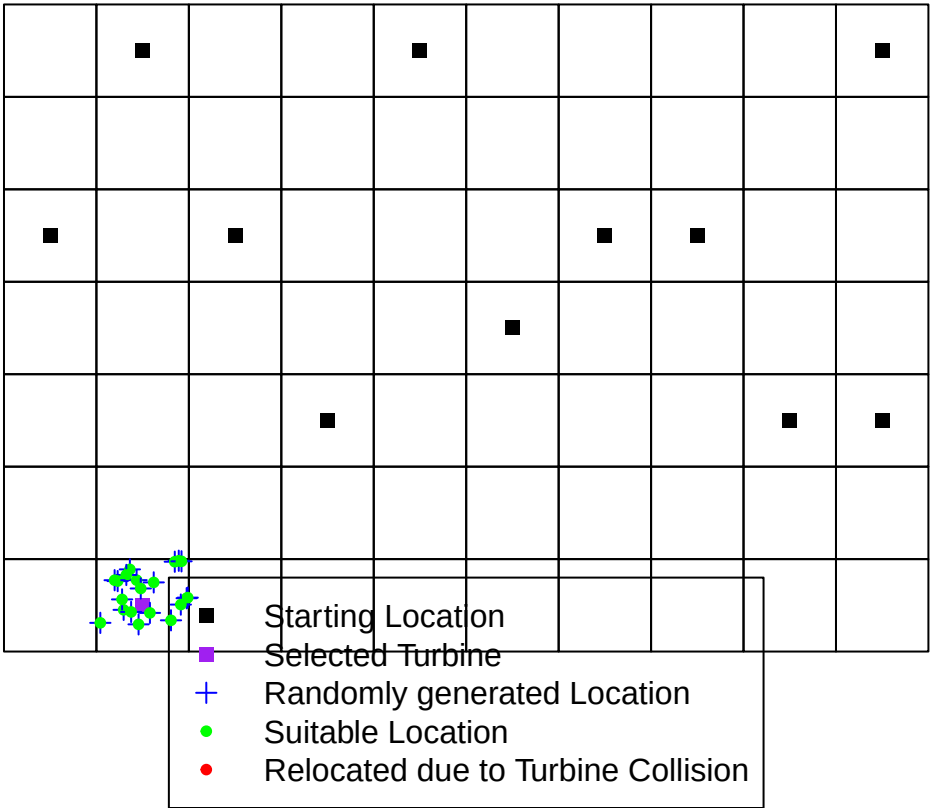
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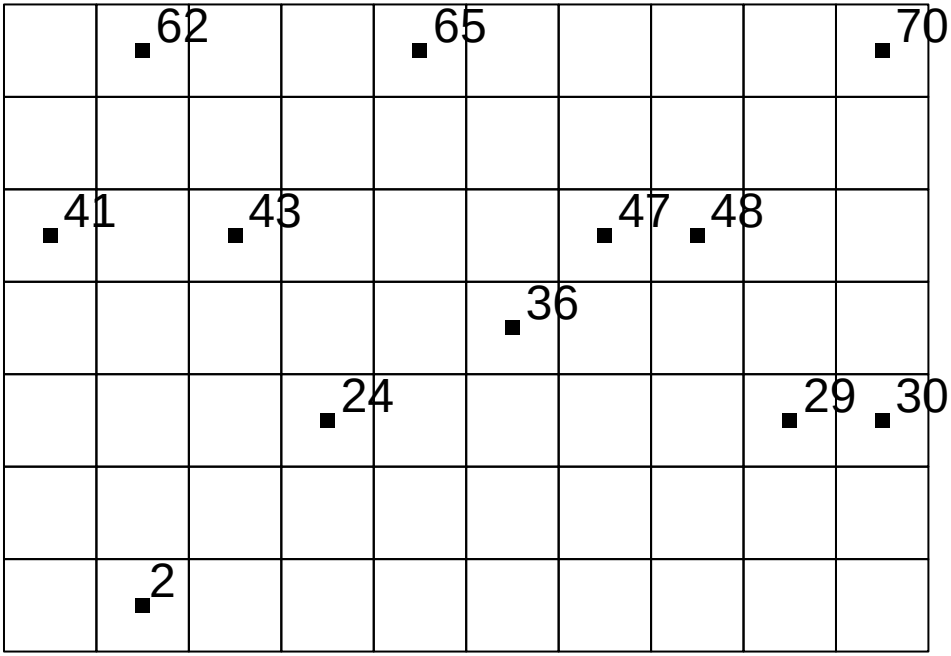
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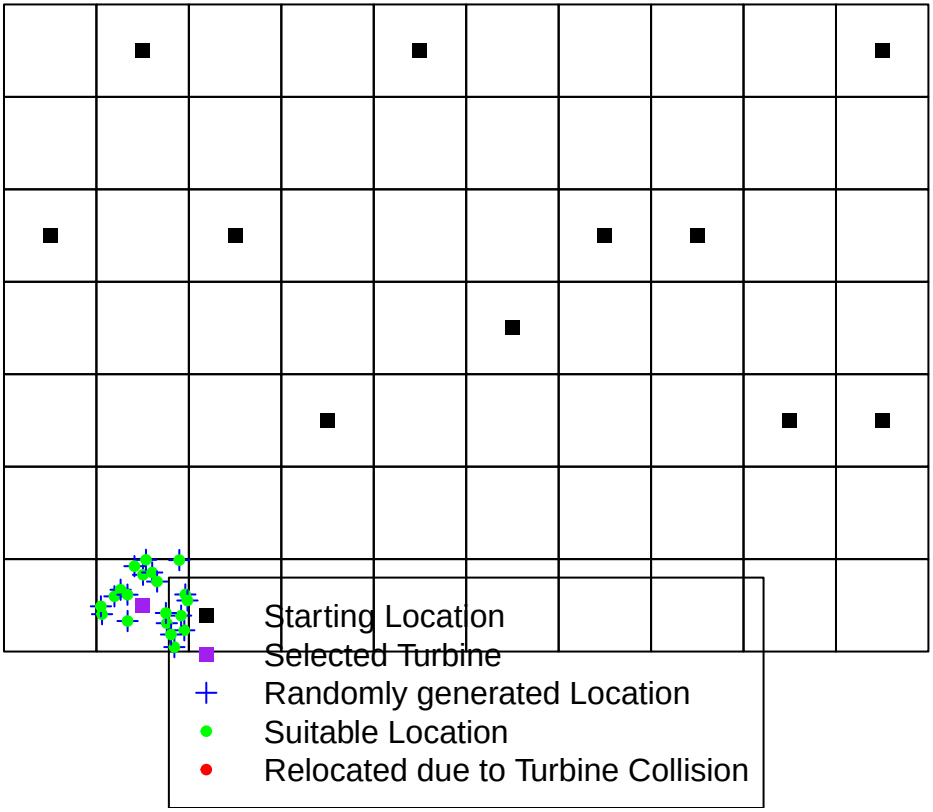
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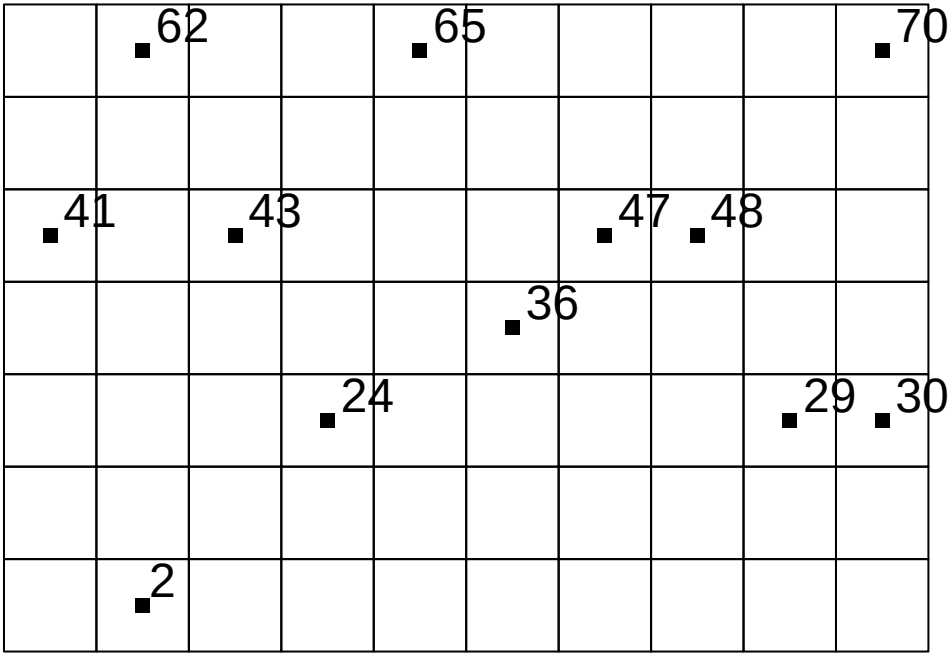
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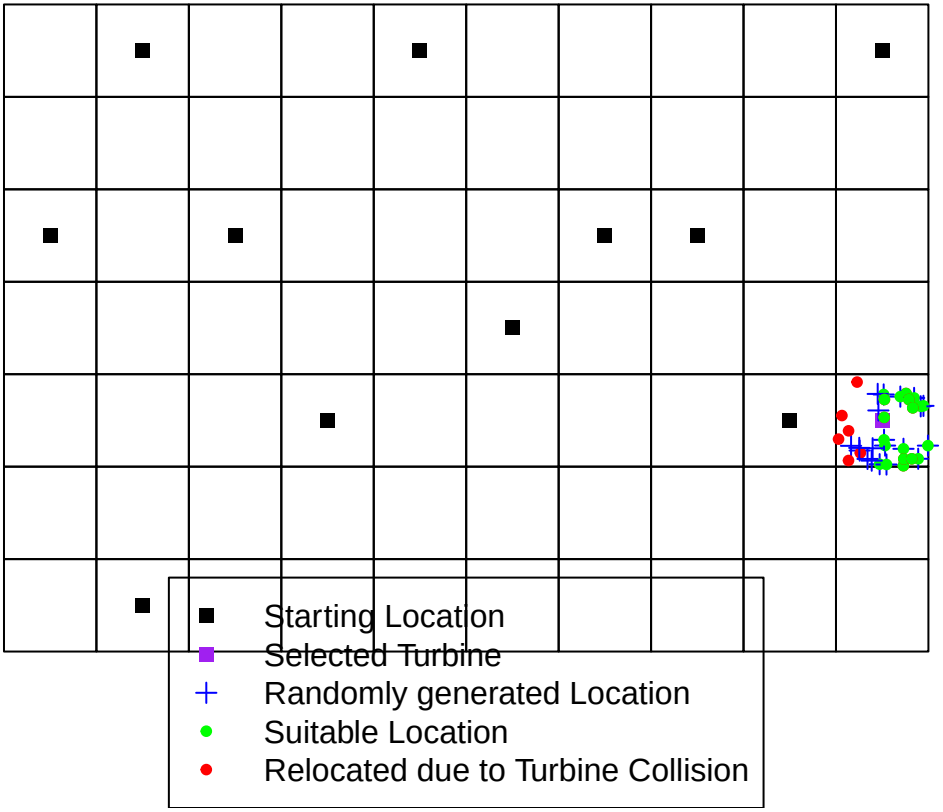
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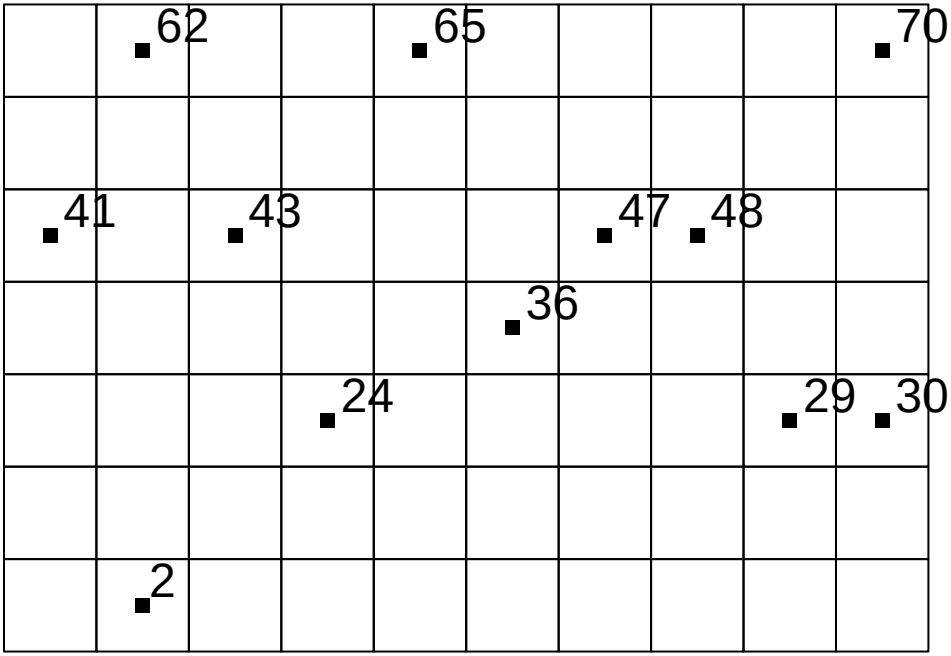
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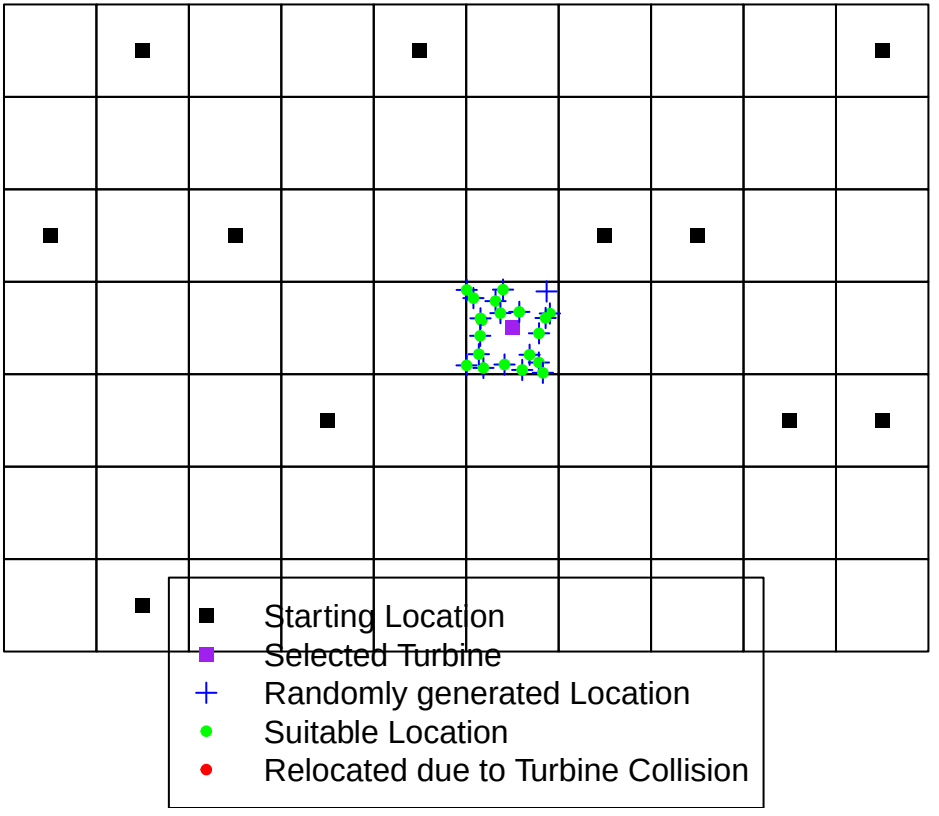
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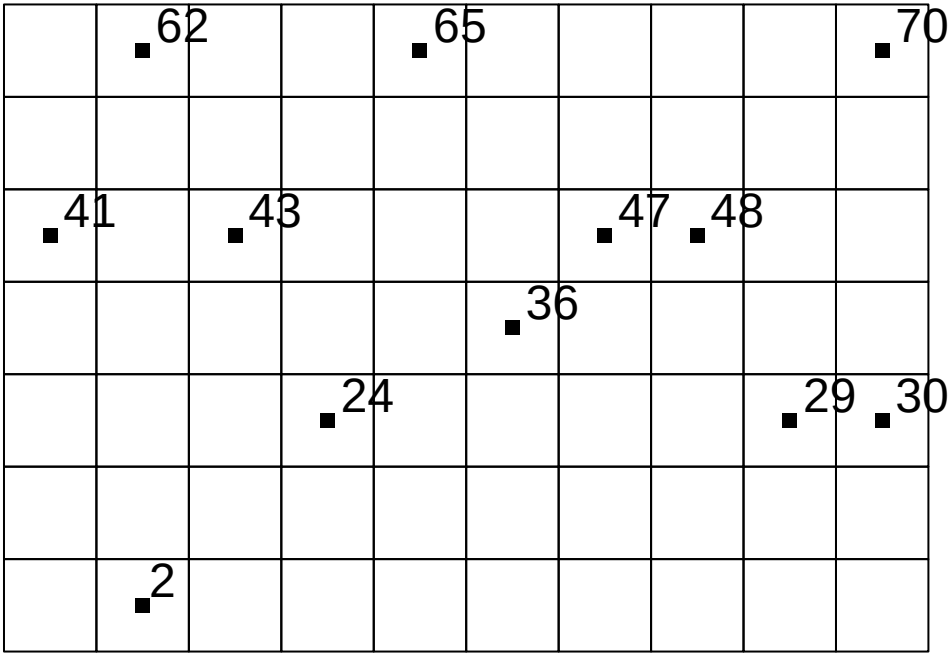
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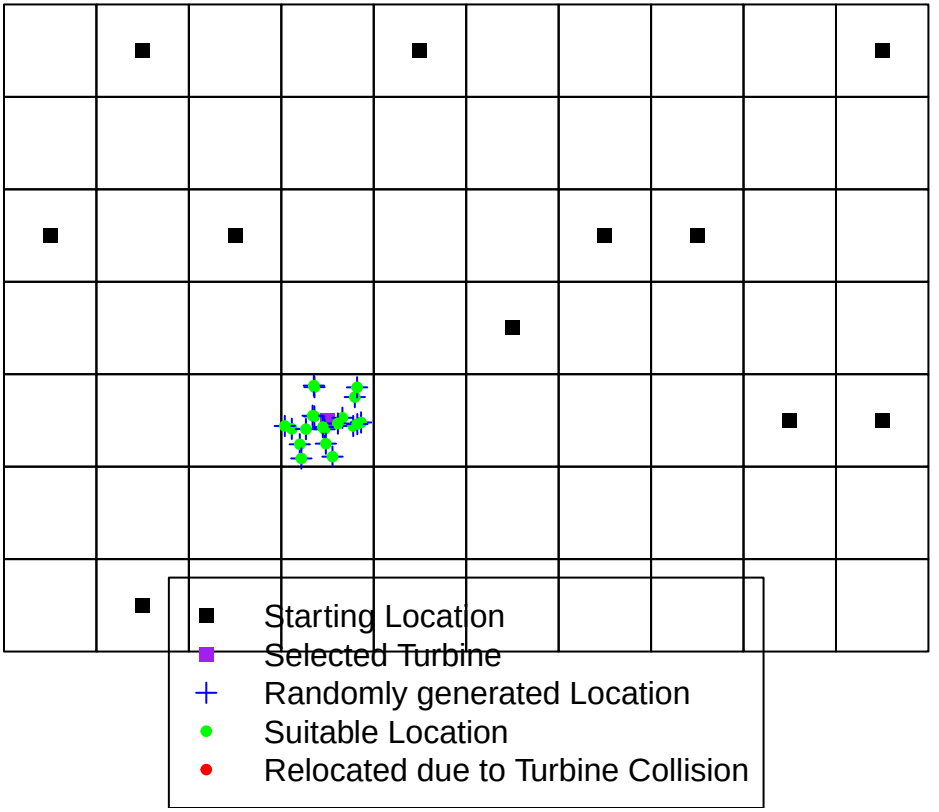
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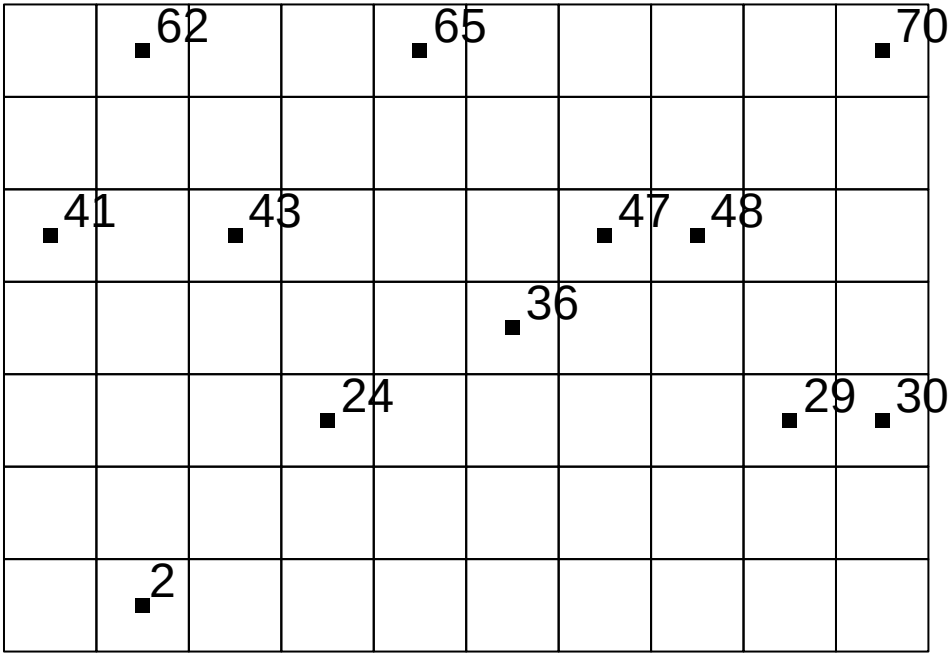
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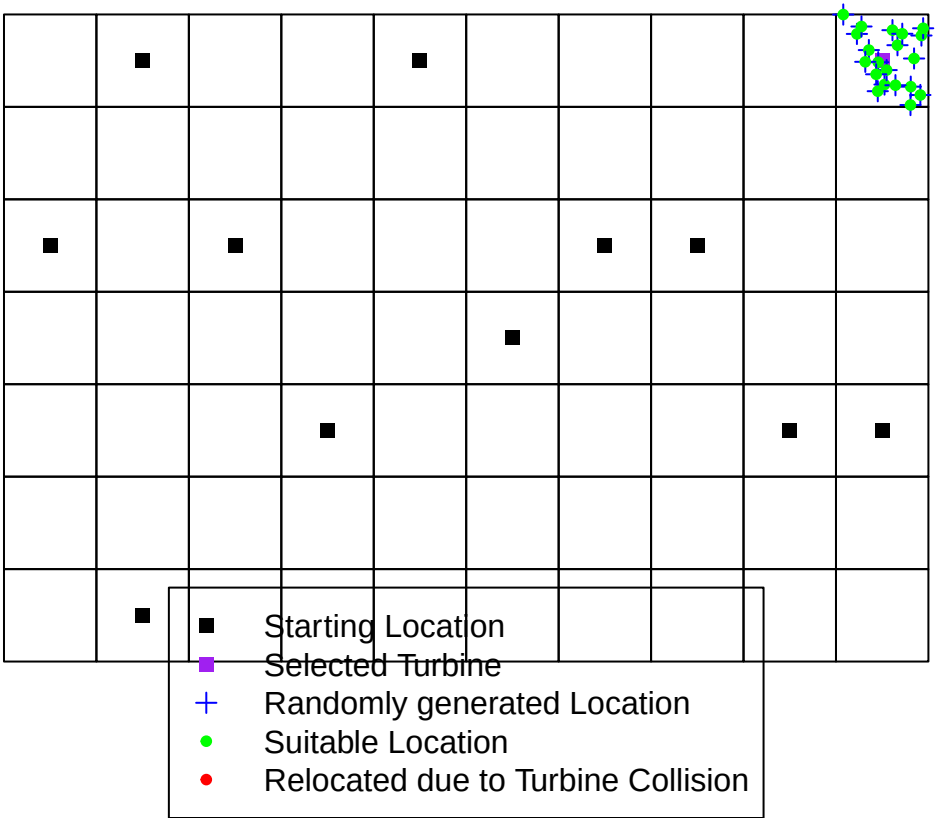
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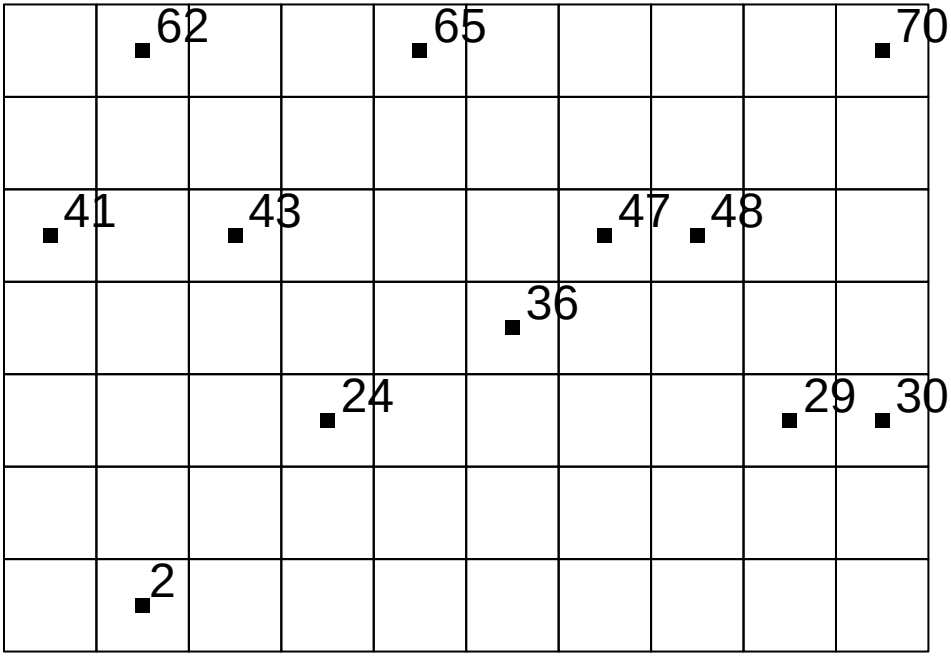
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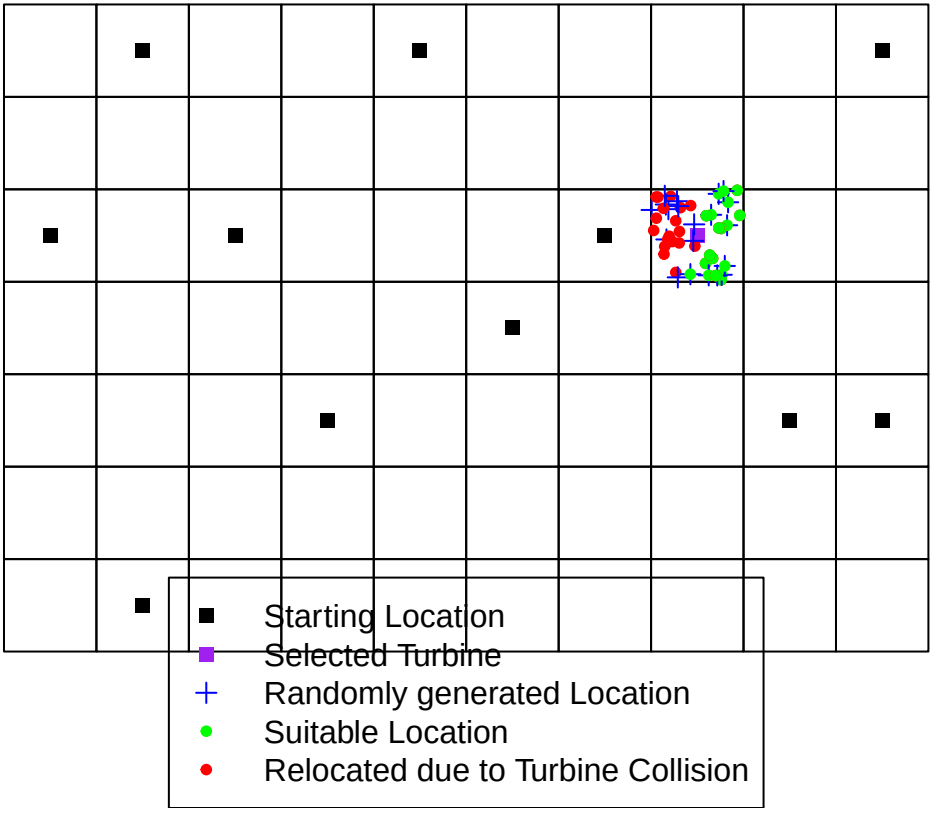
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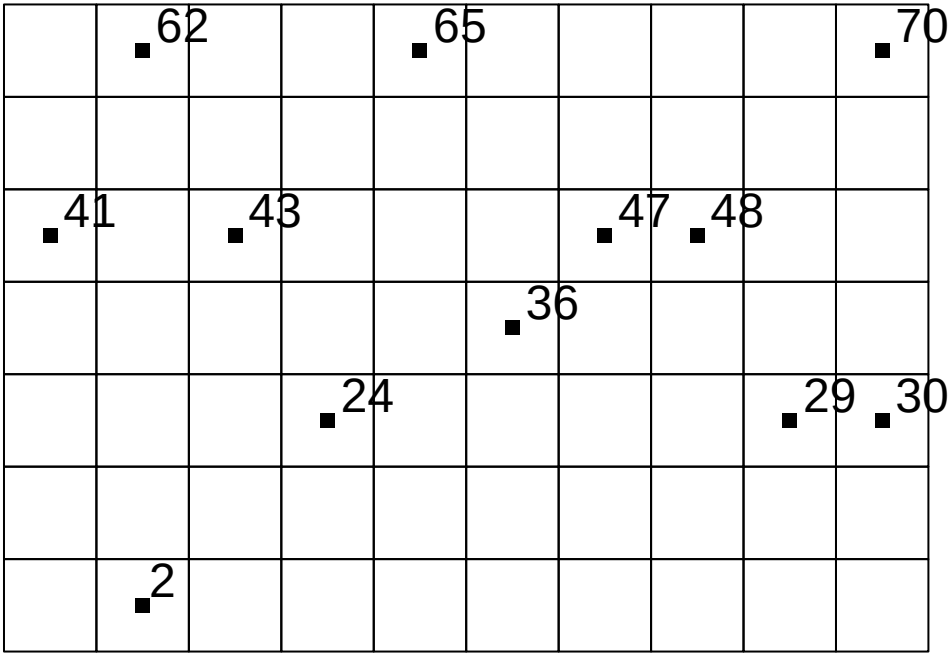
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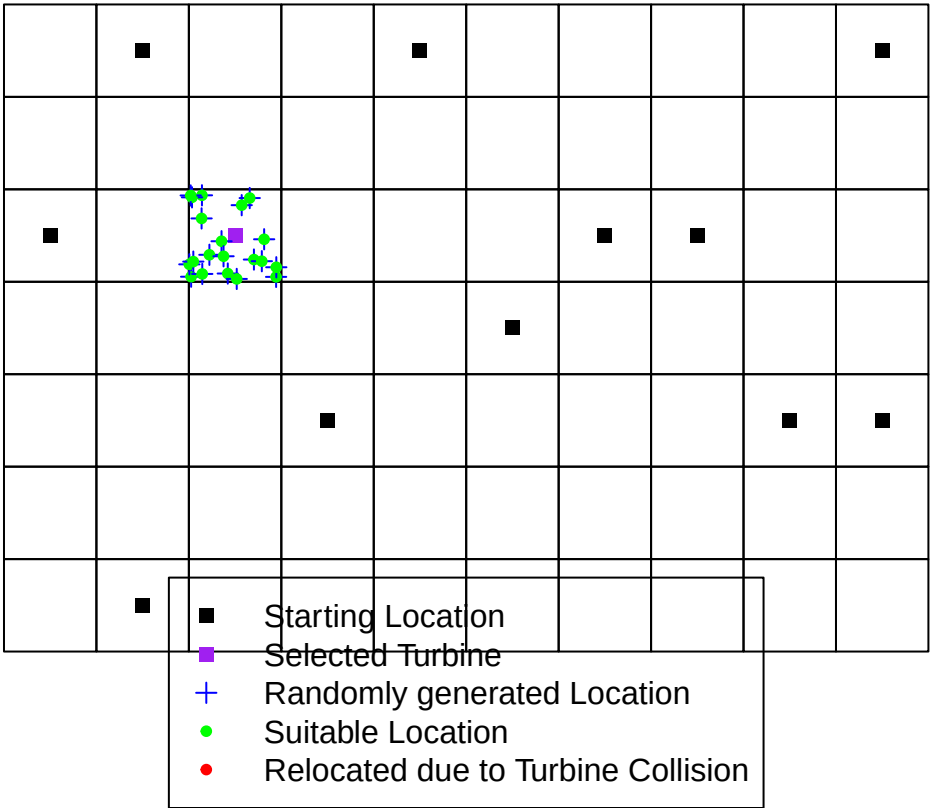
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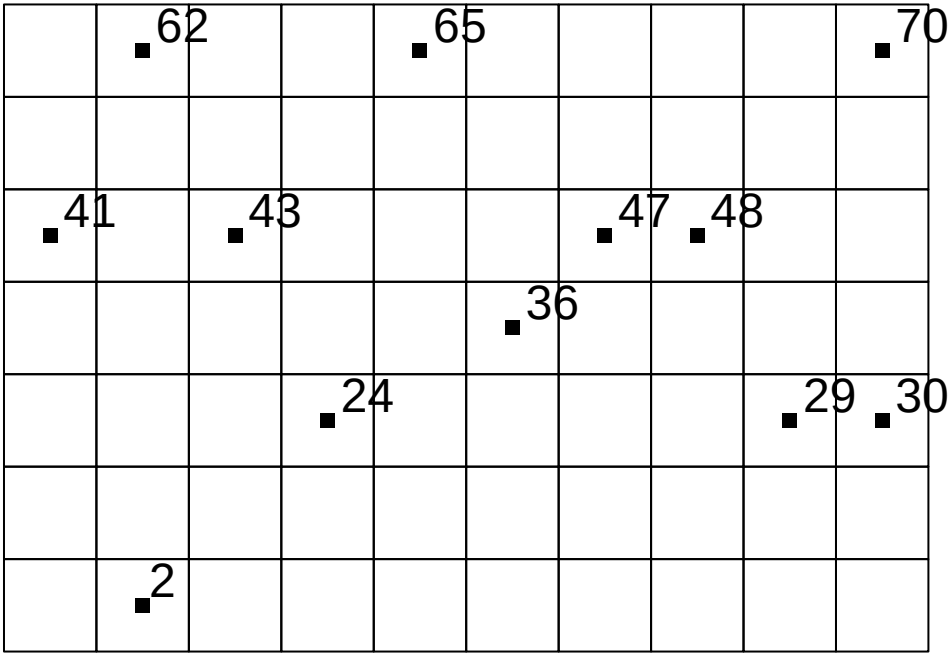
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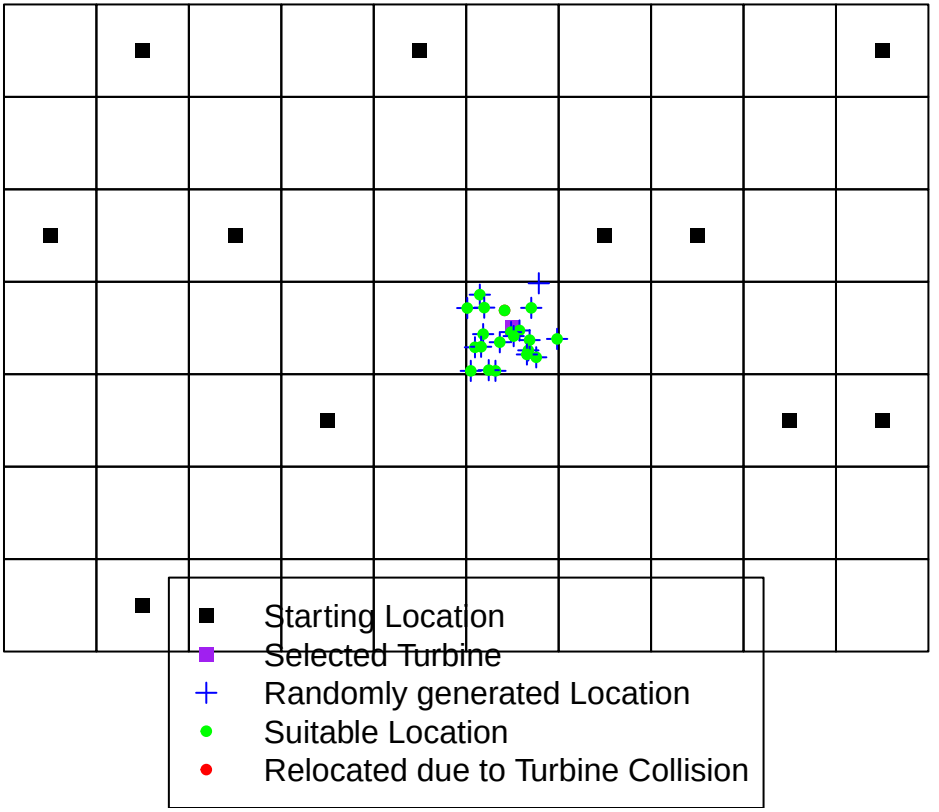
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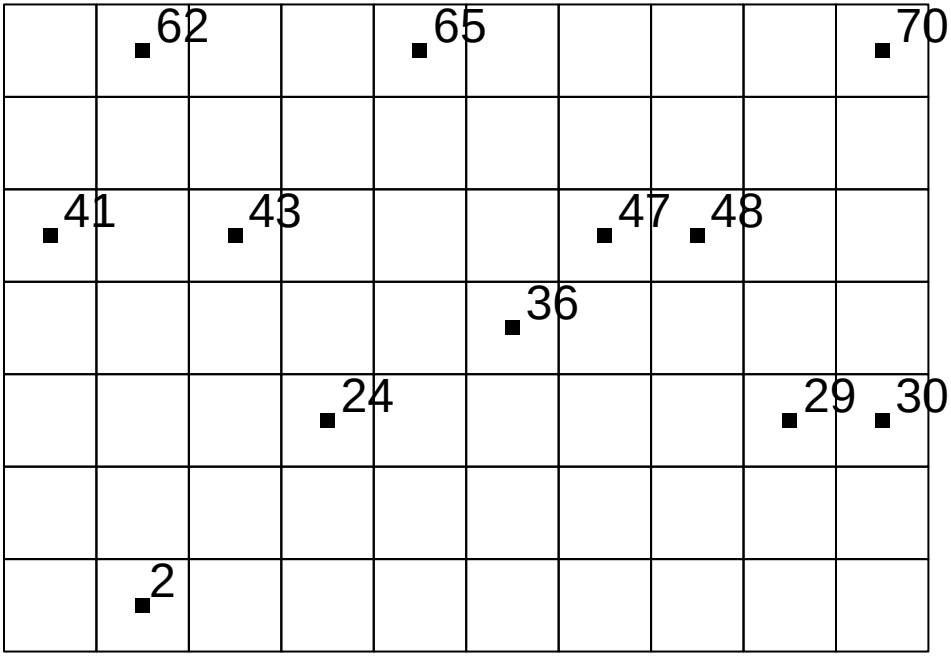
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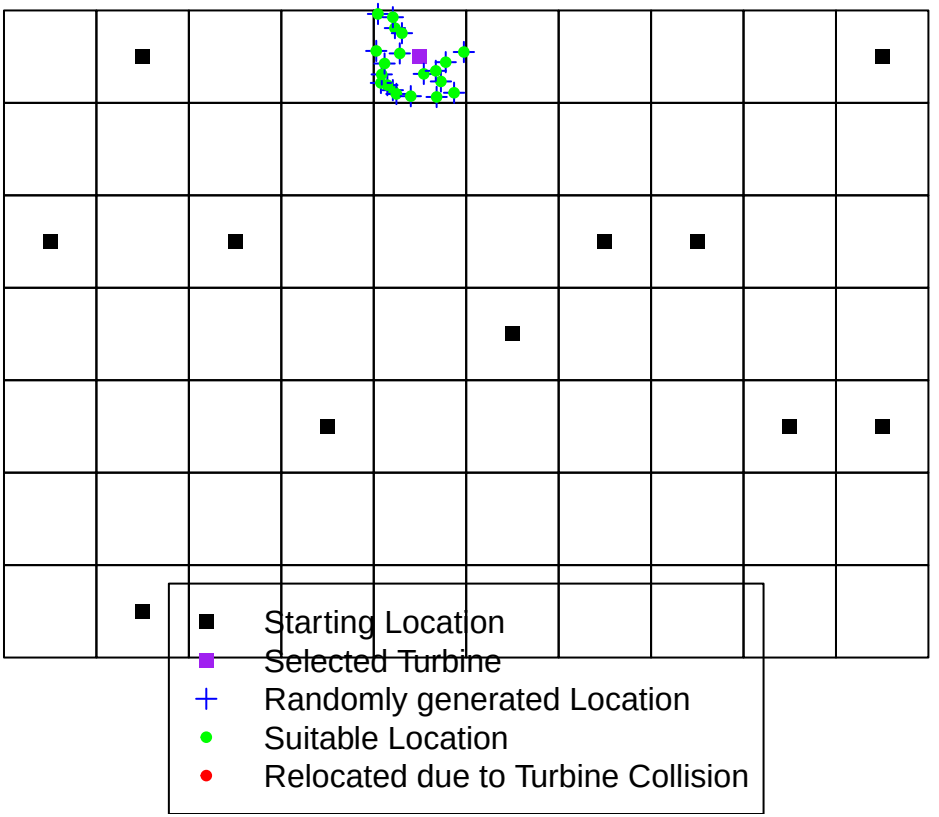
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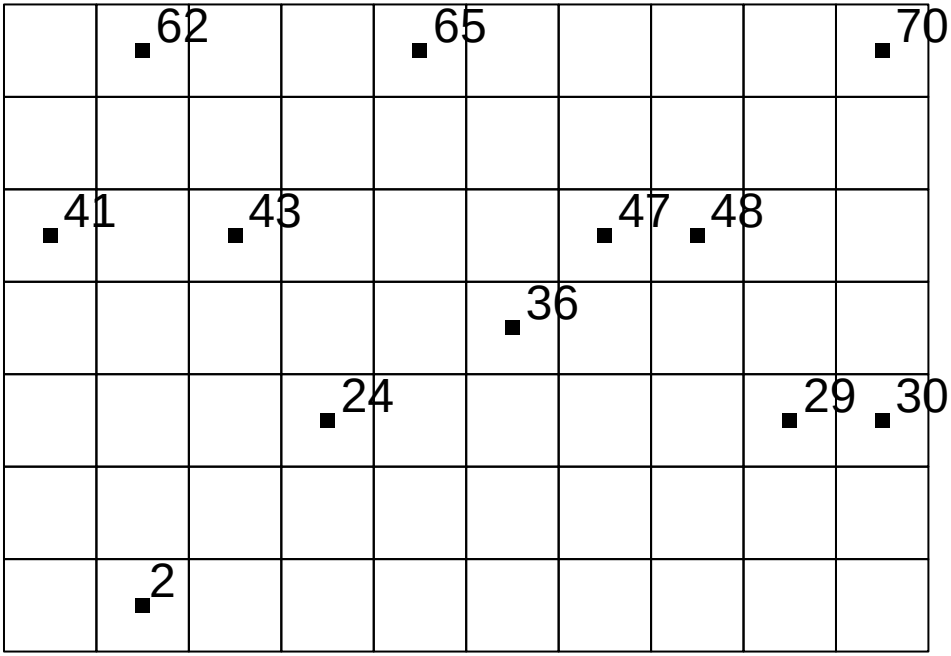
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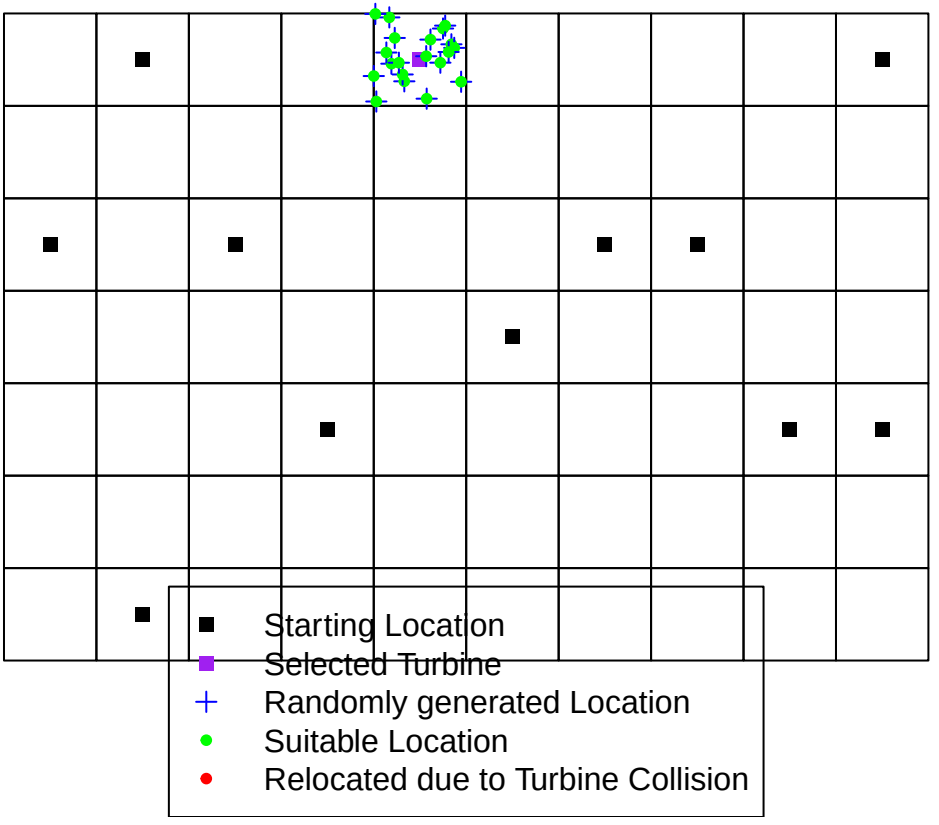
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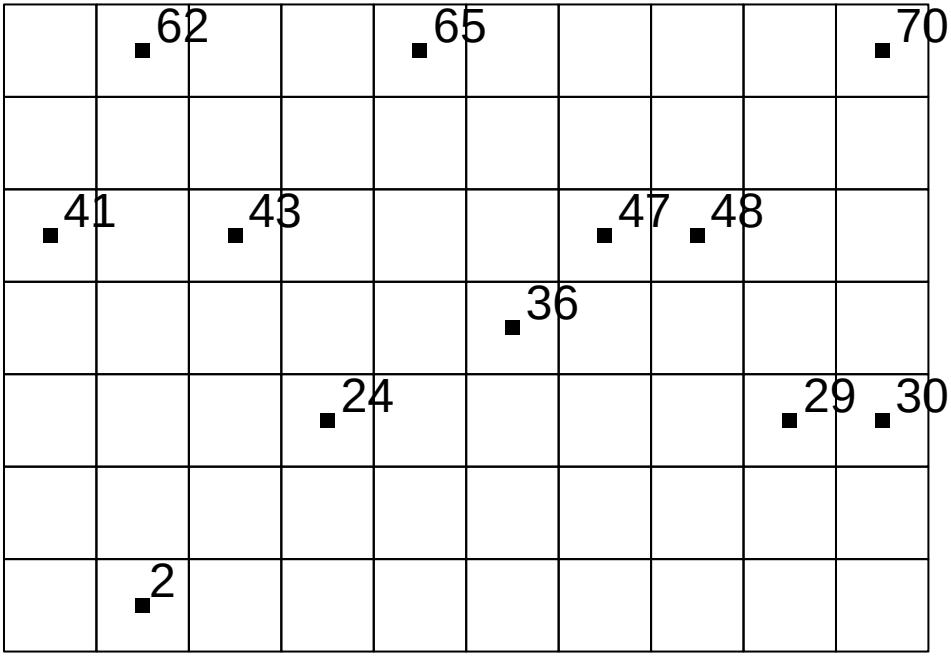
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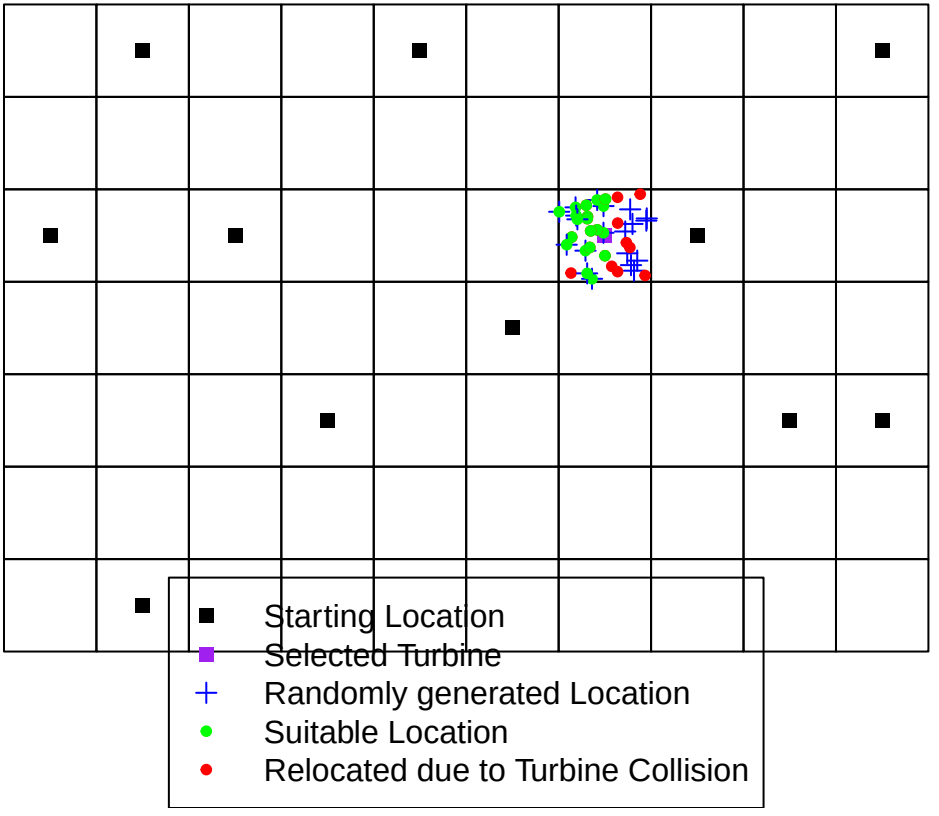
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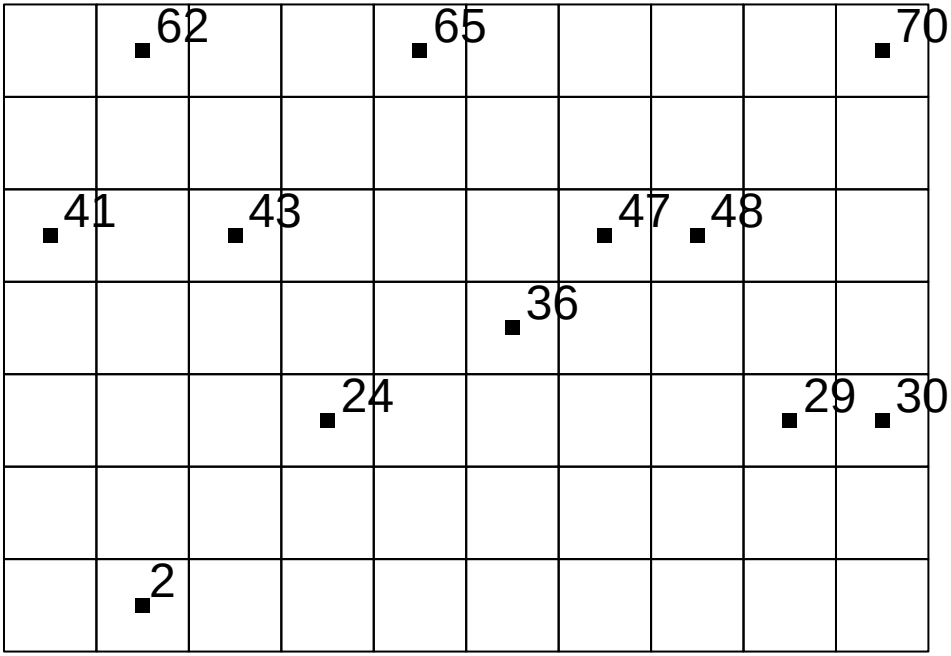
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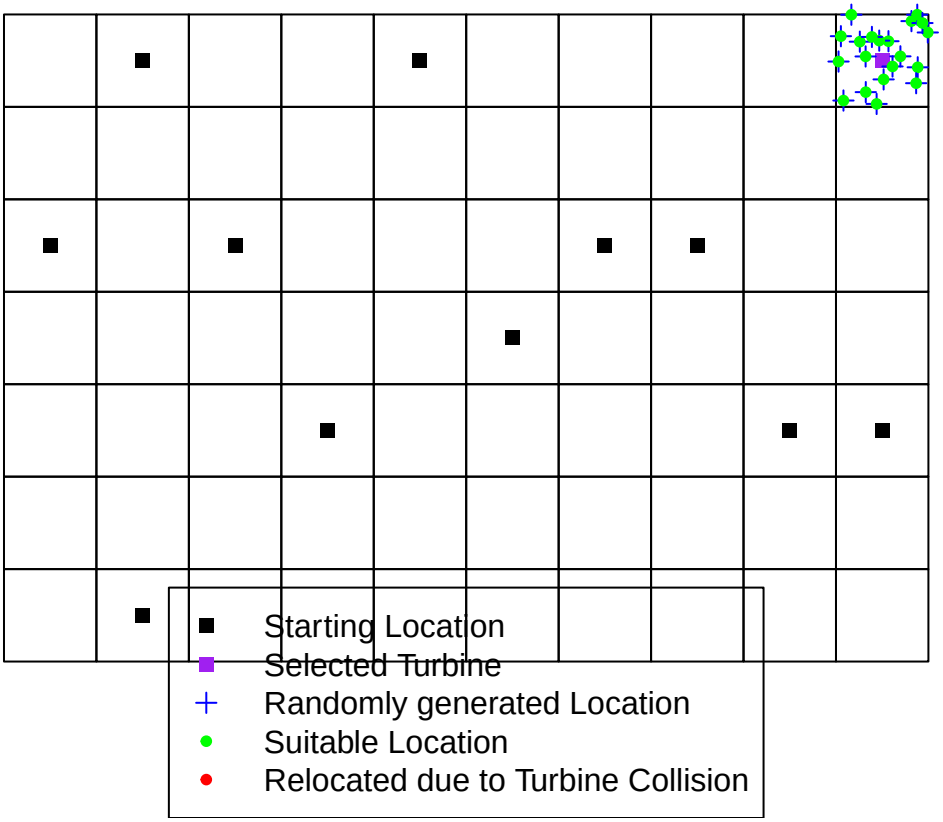
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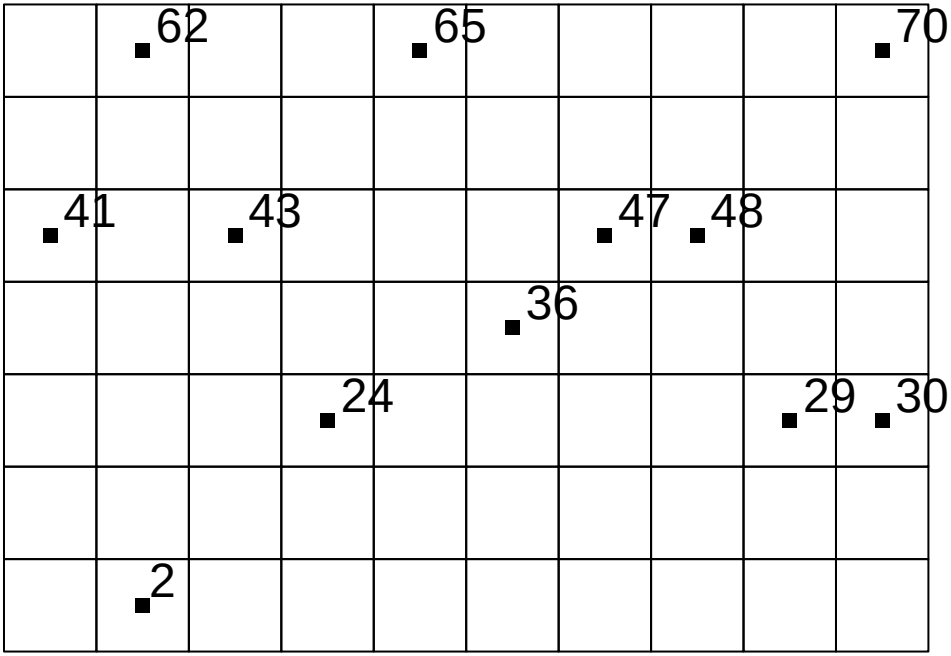
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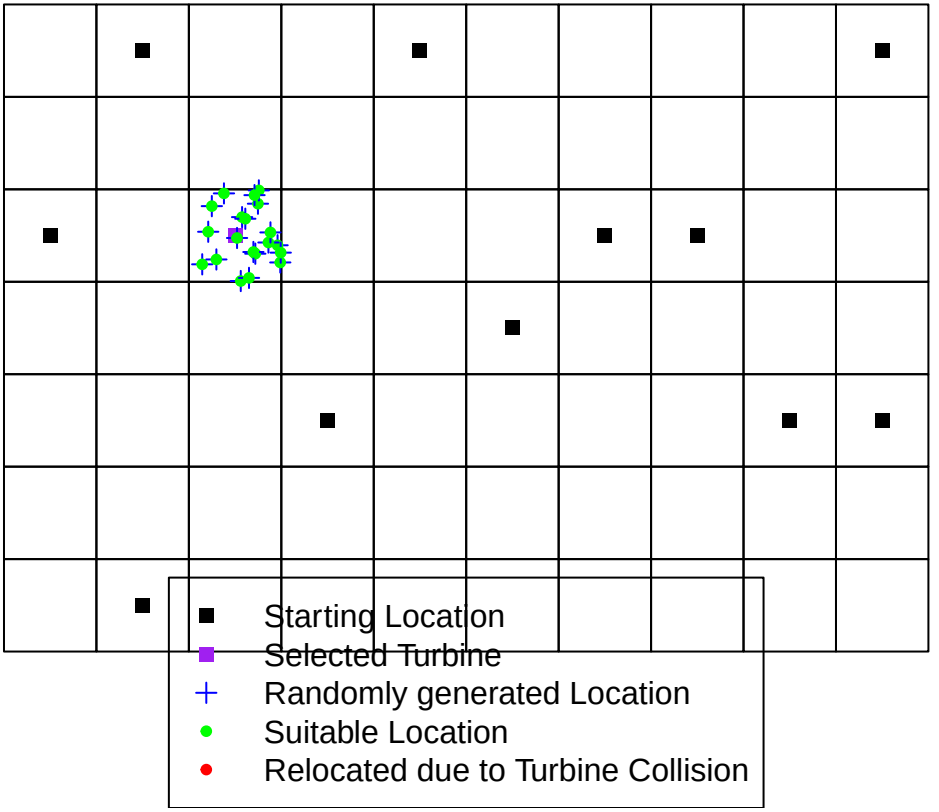
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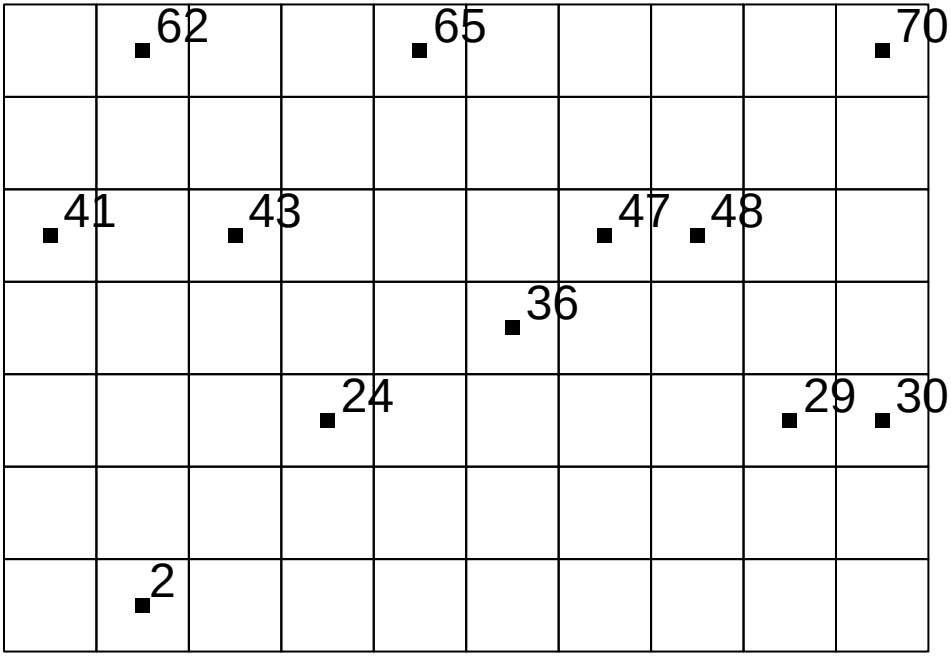
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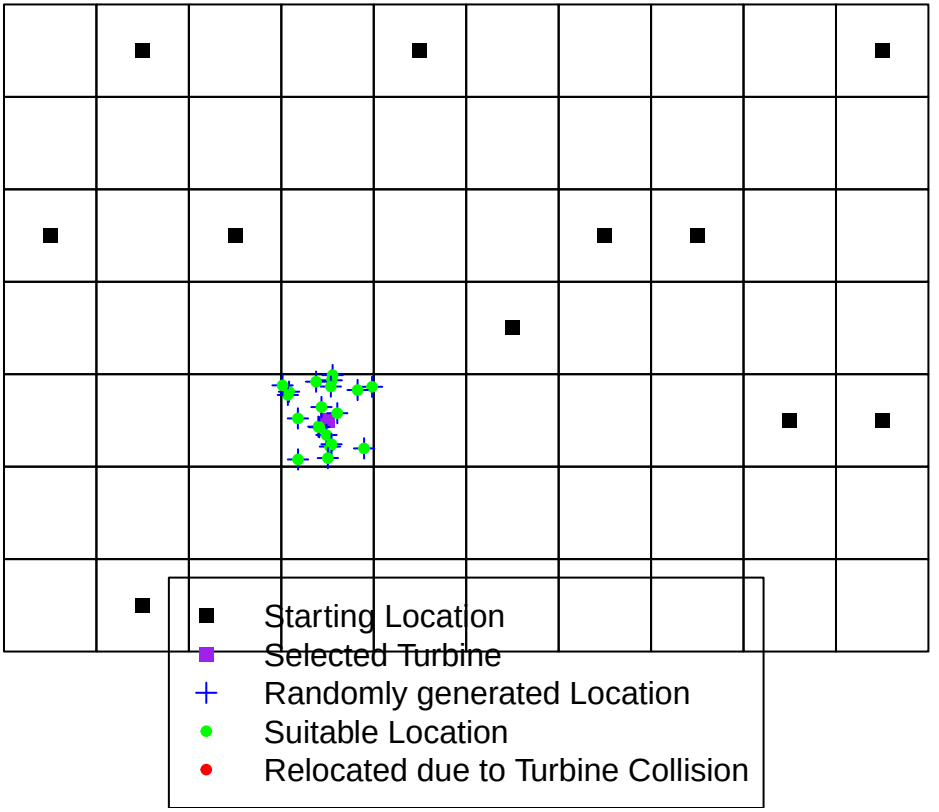
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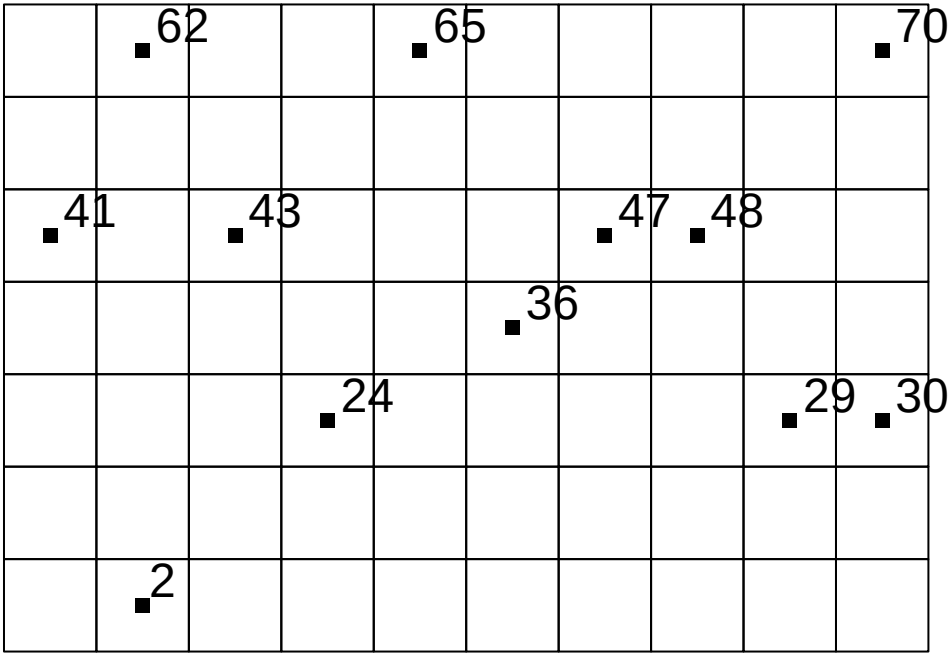
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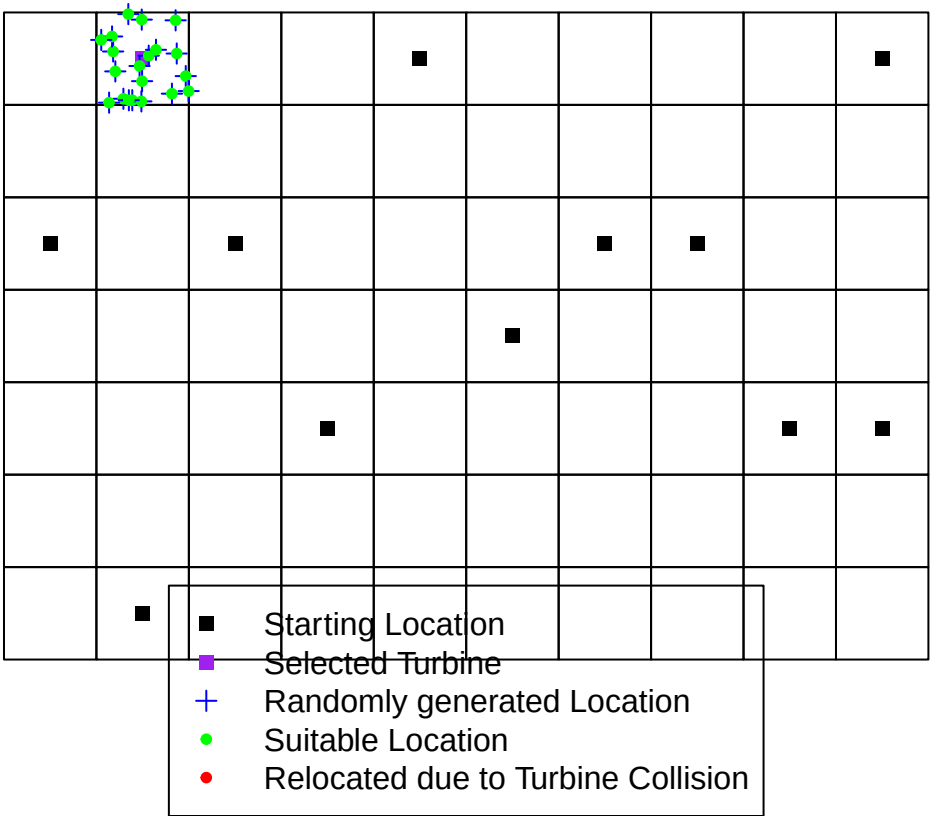
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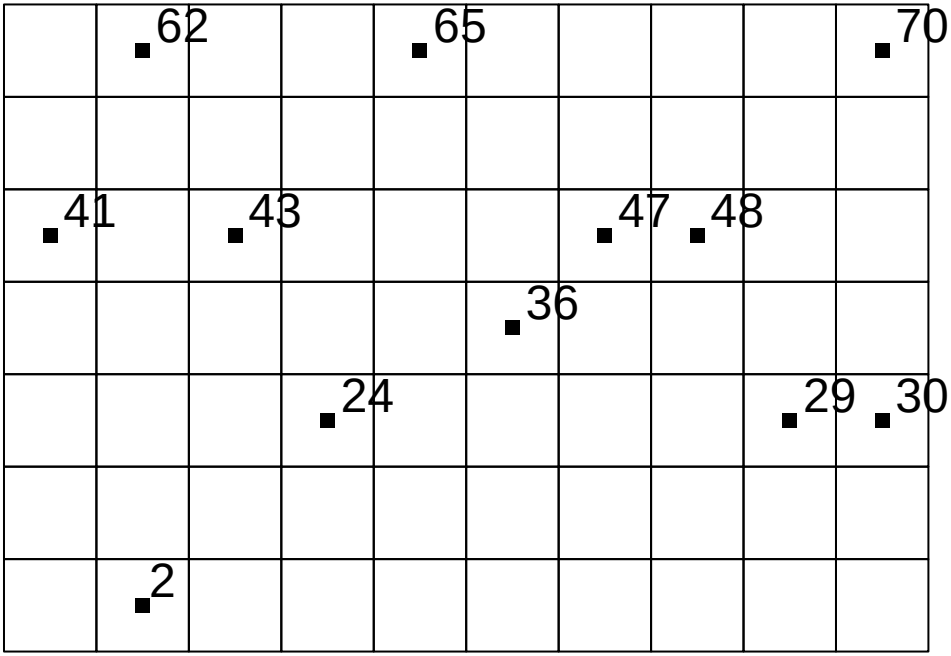
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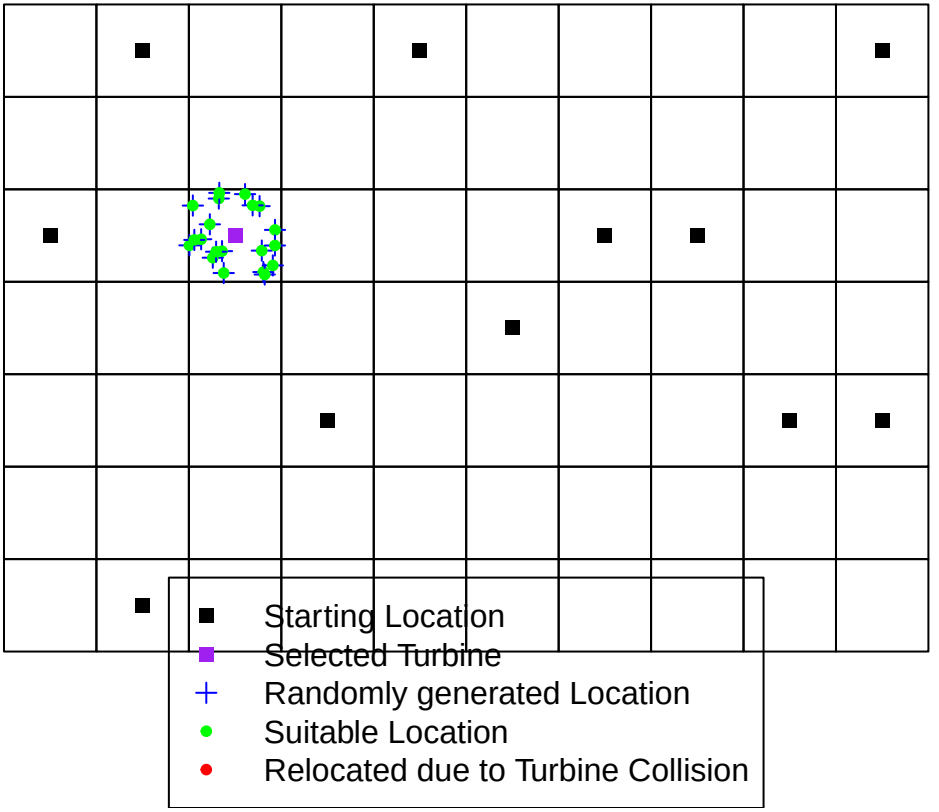
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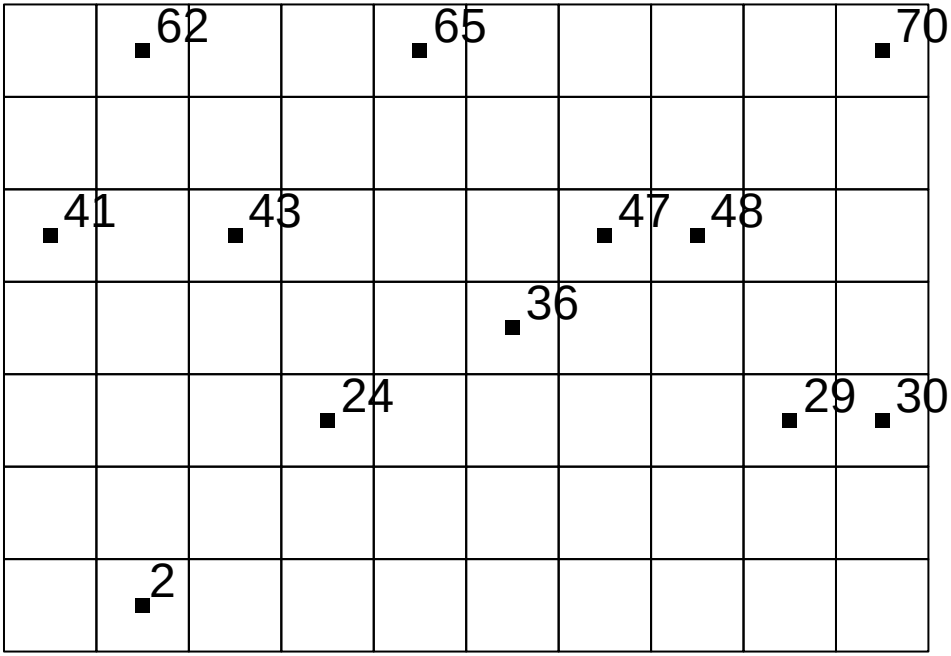
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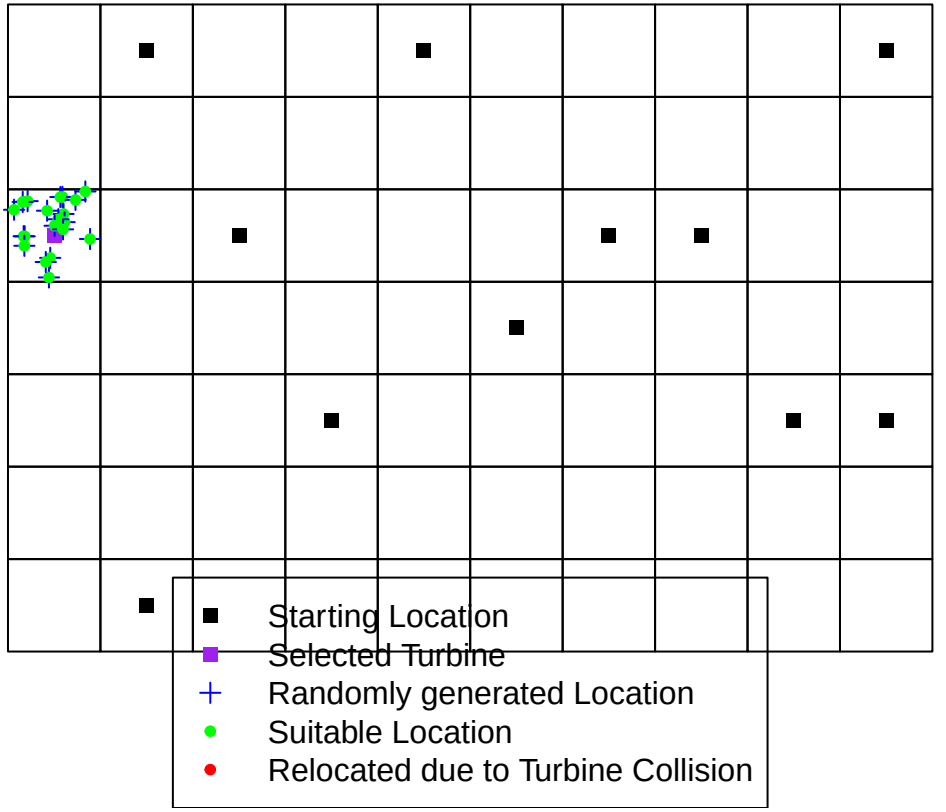
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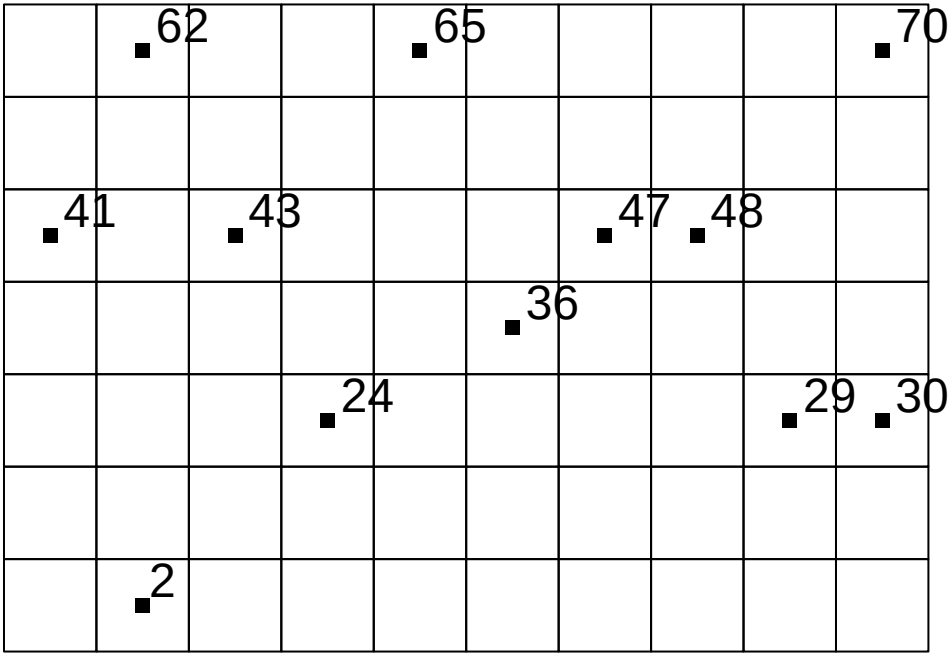
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision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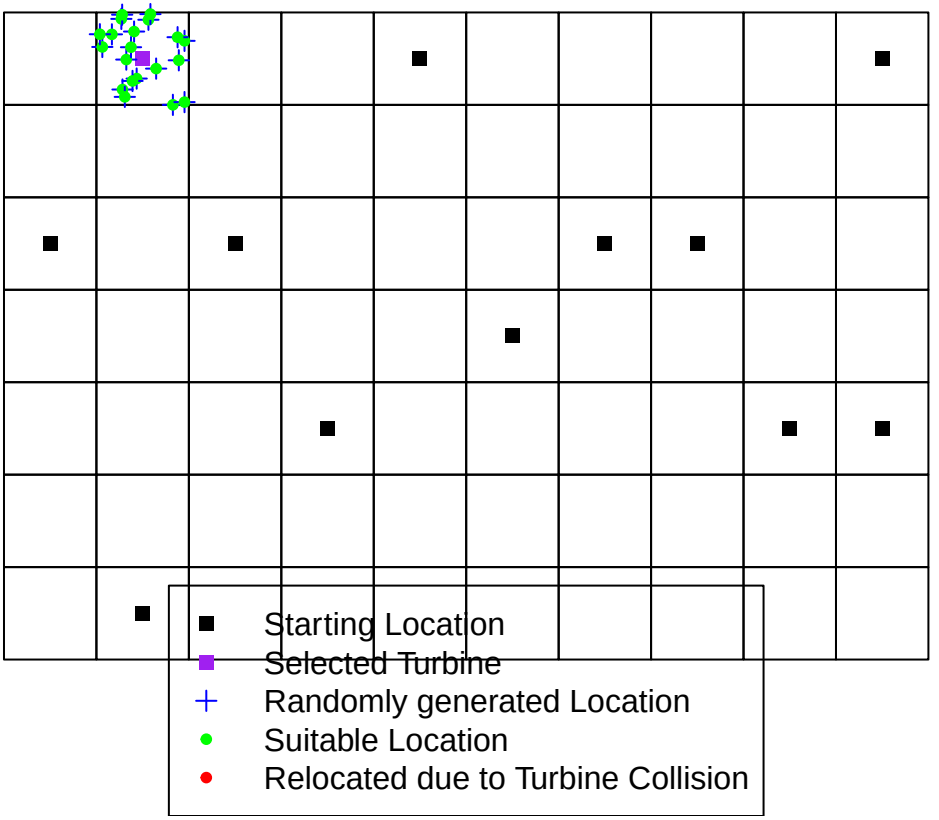
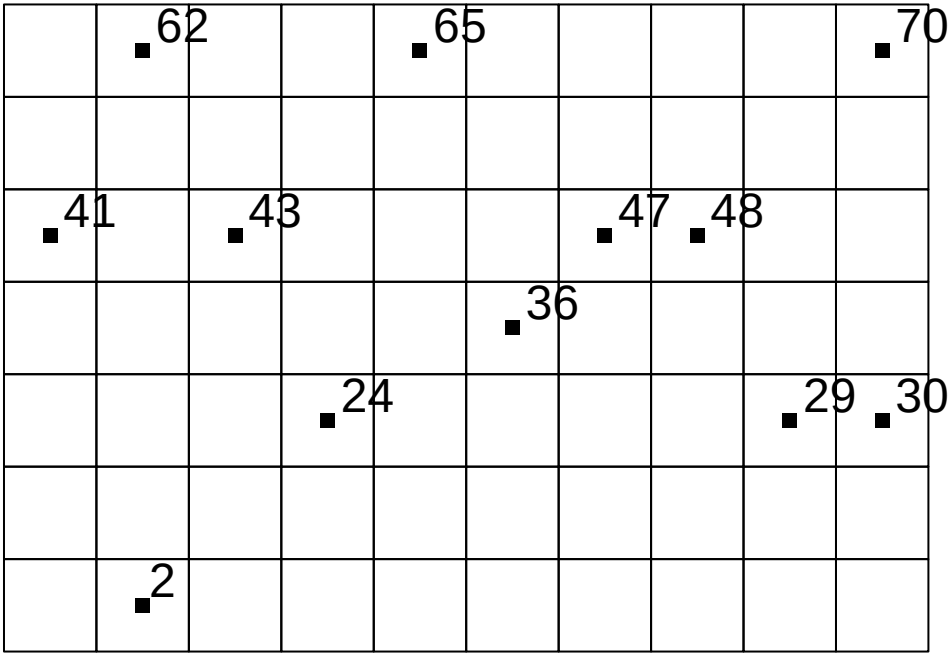

Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision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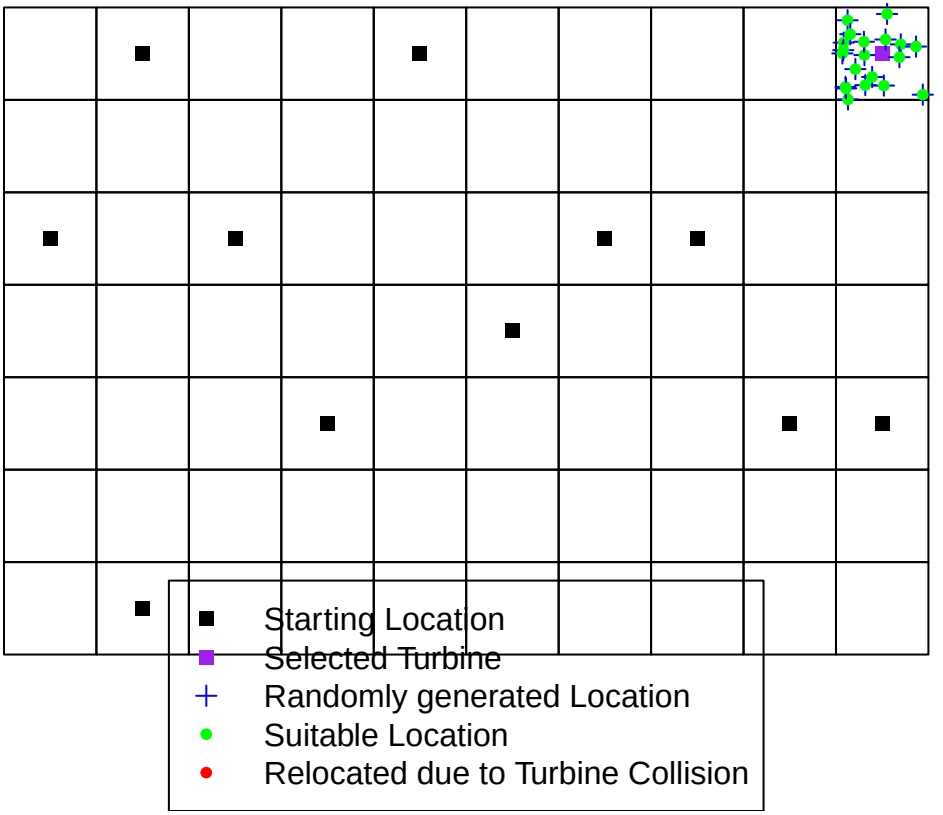
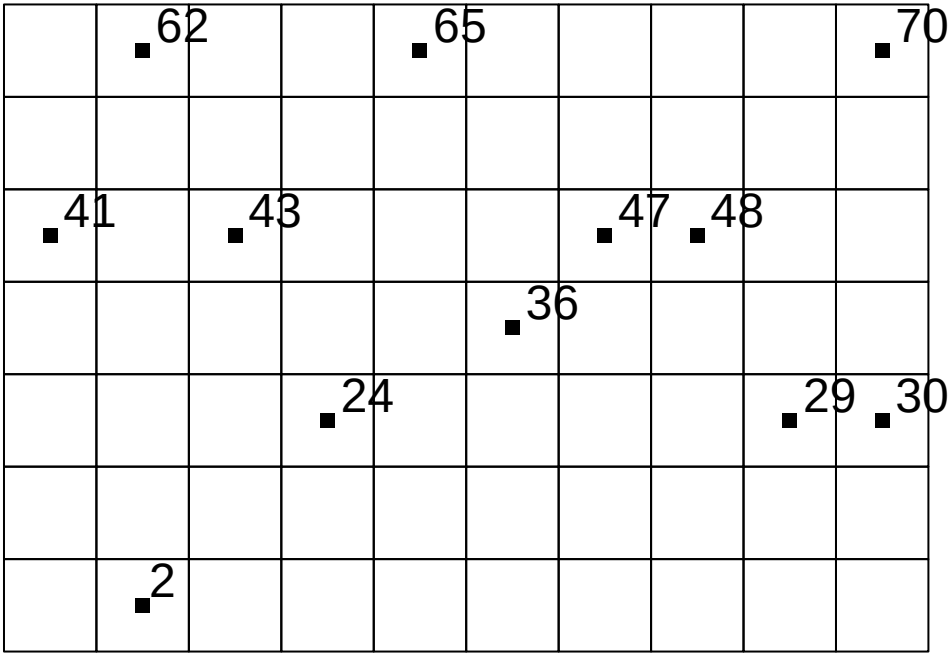

Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision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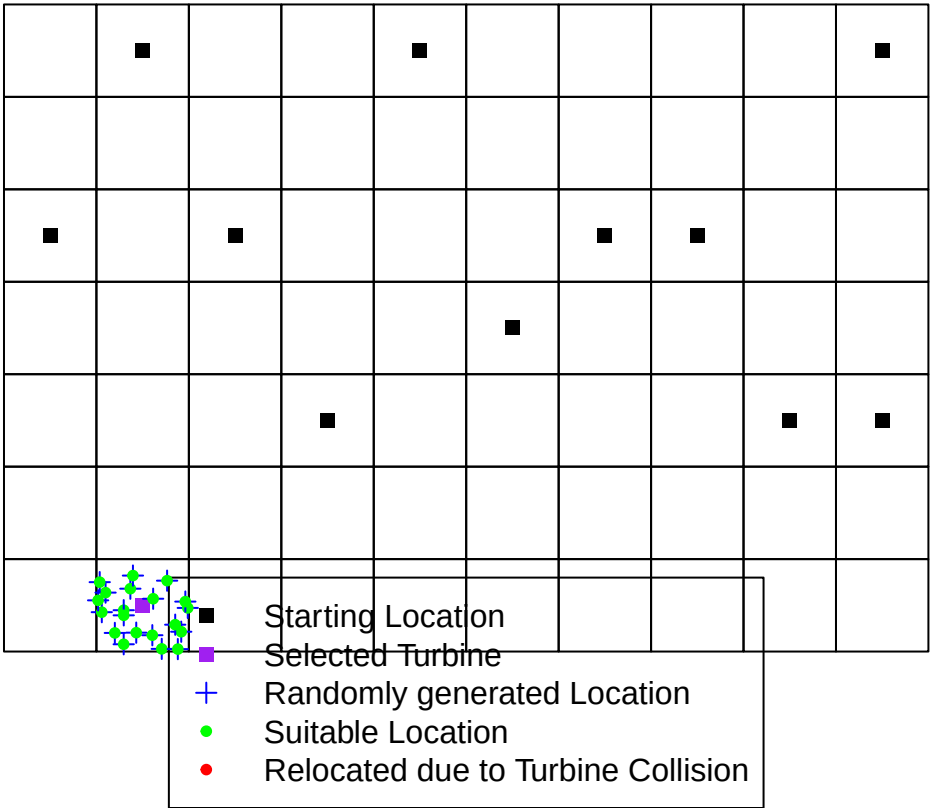
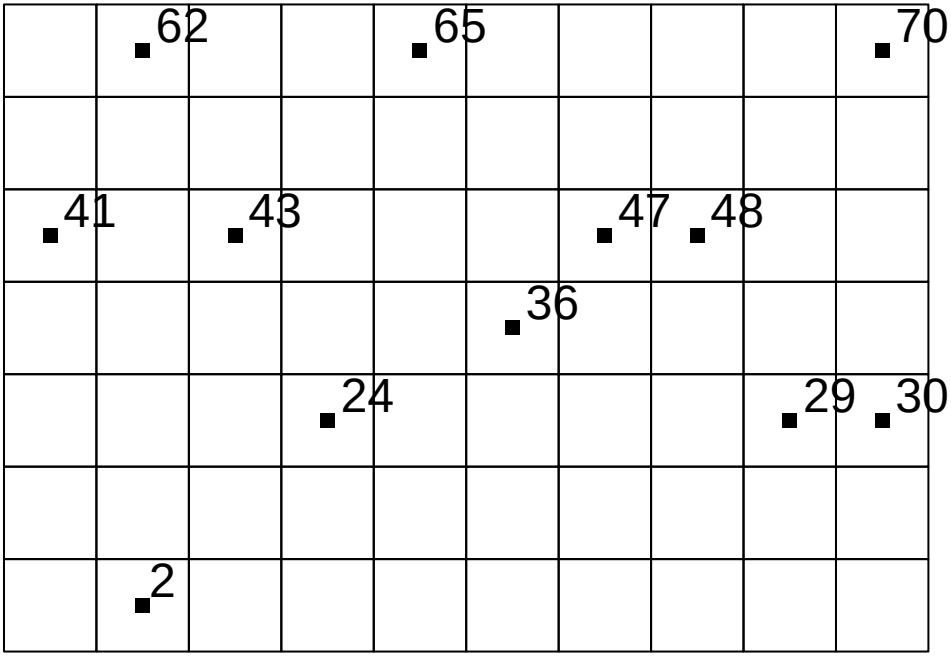

Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision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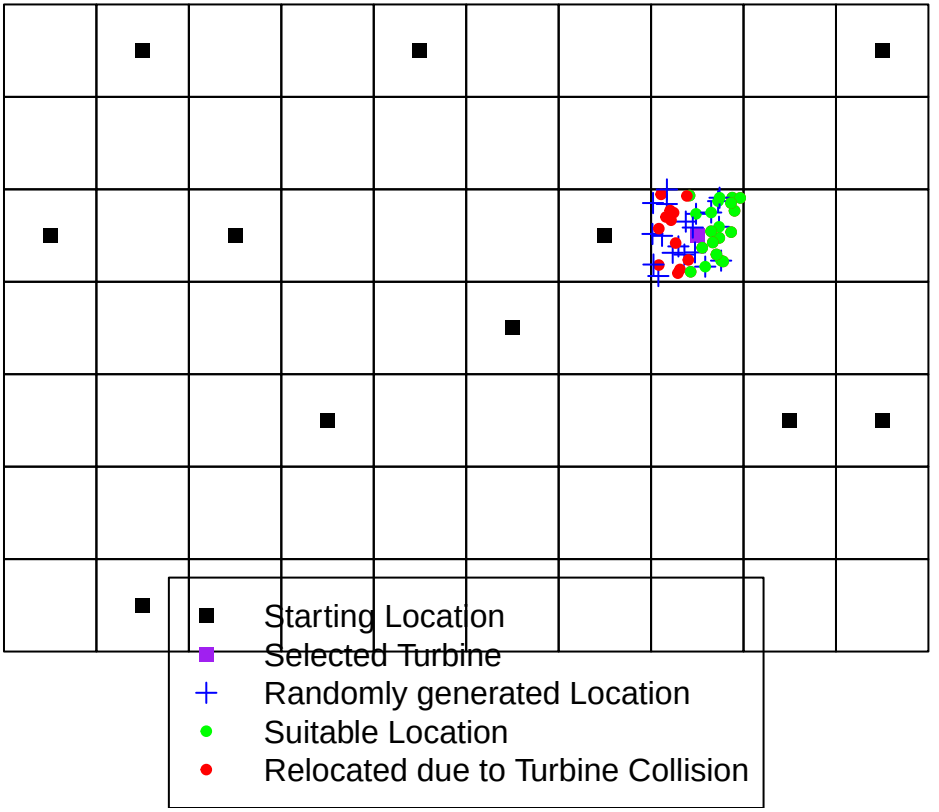
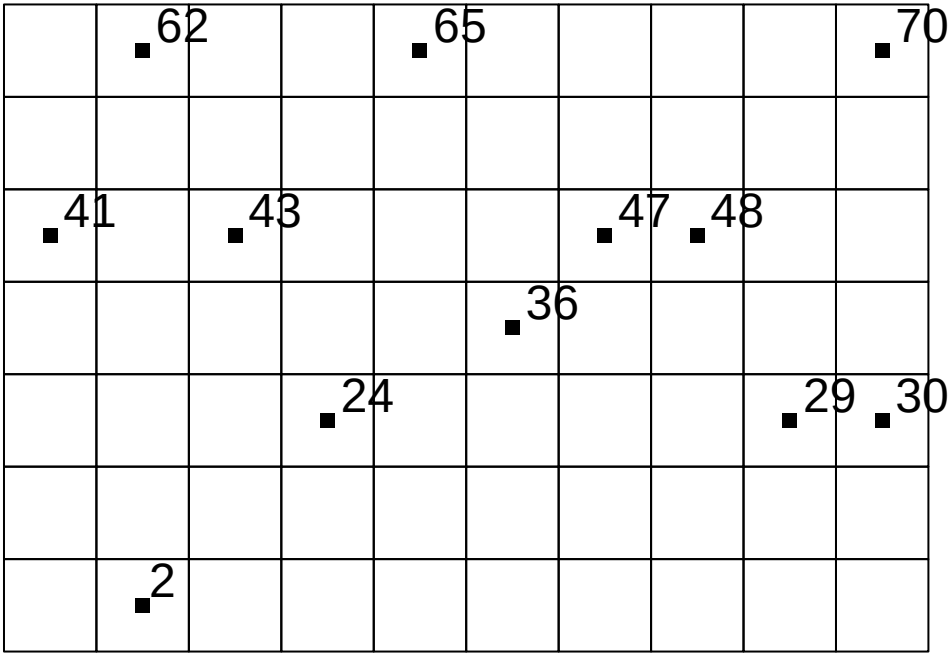

Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision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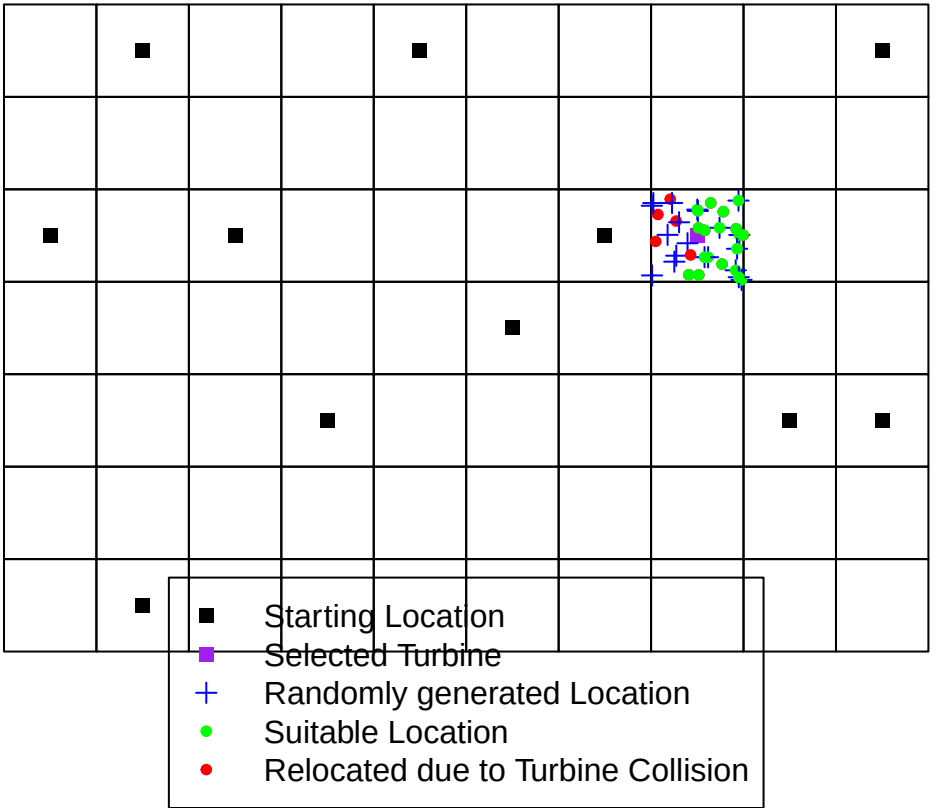
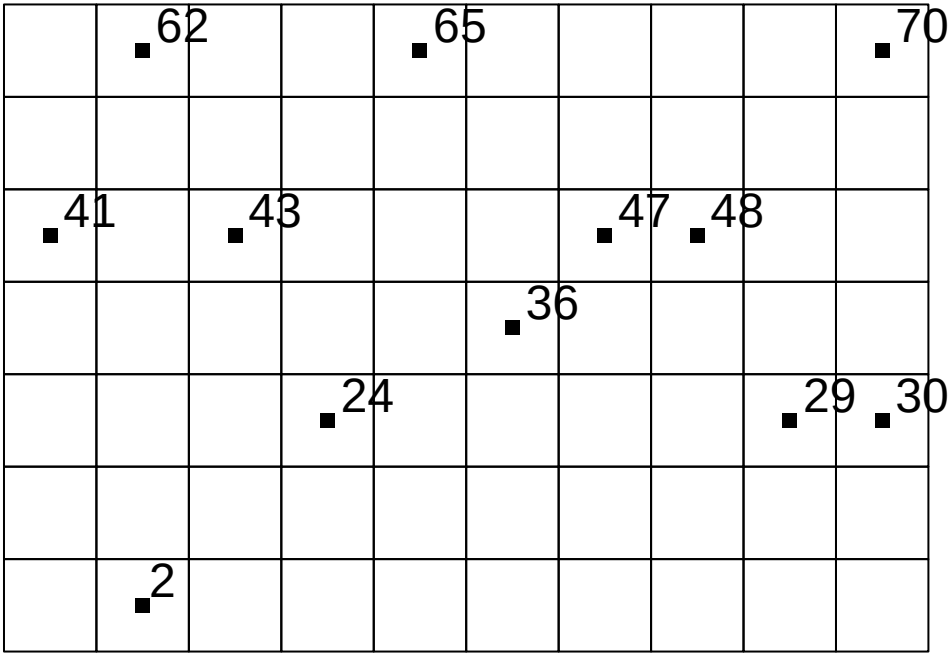

Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision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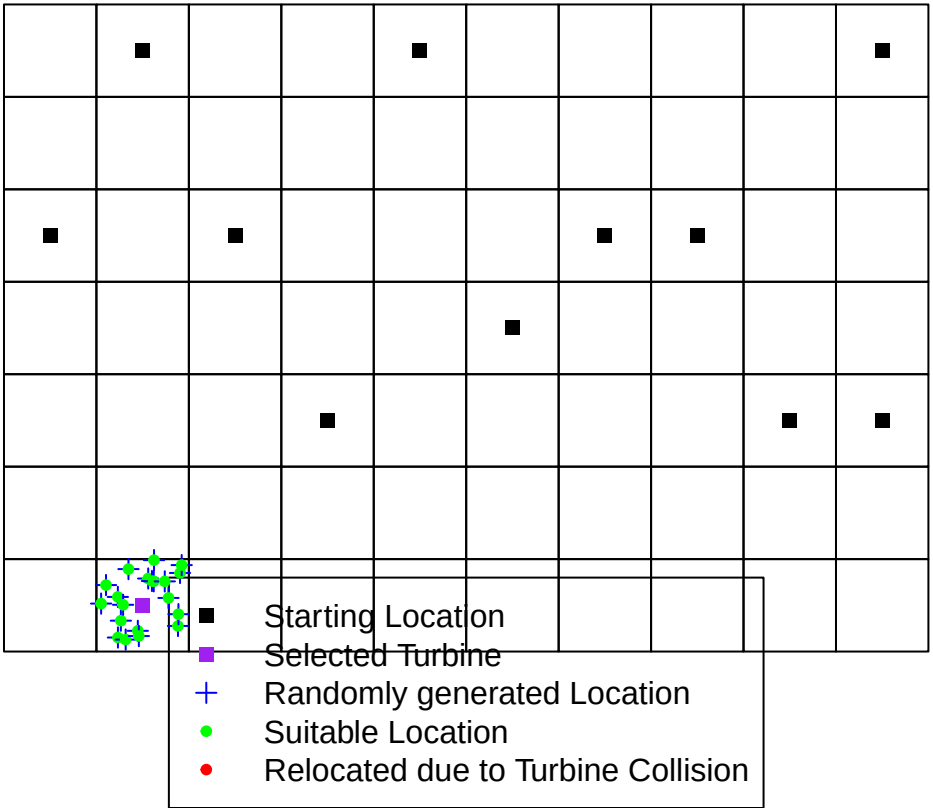
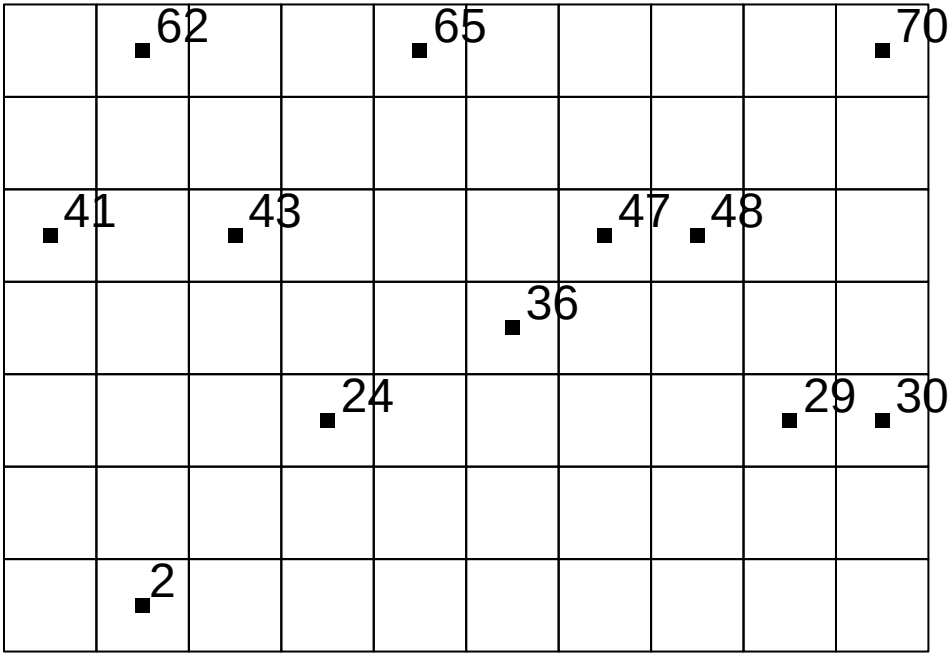

Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision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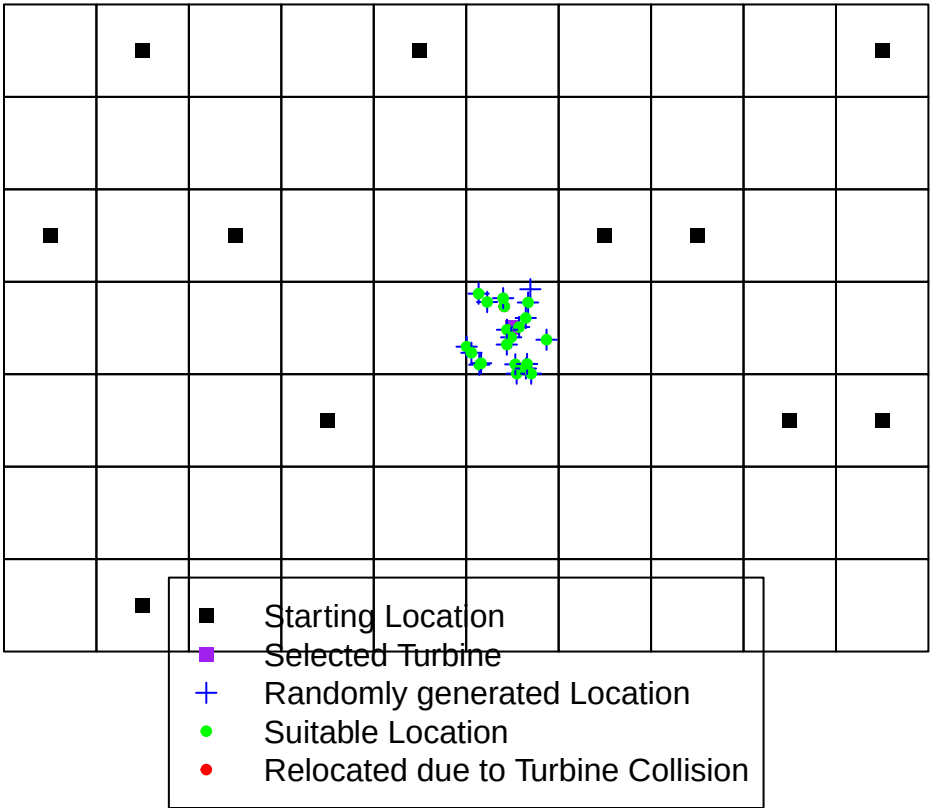
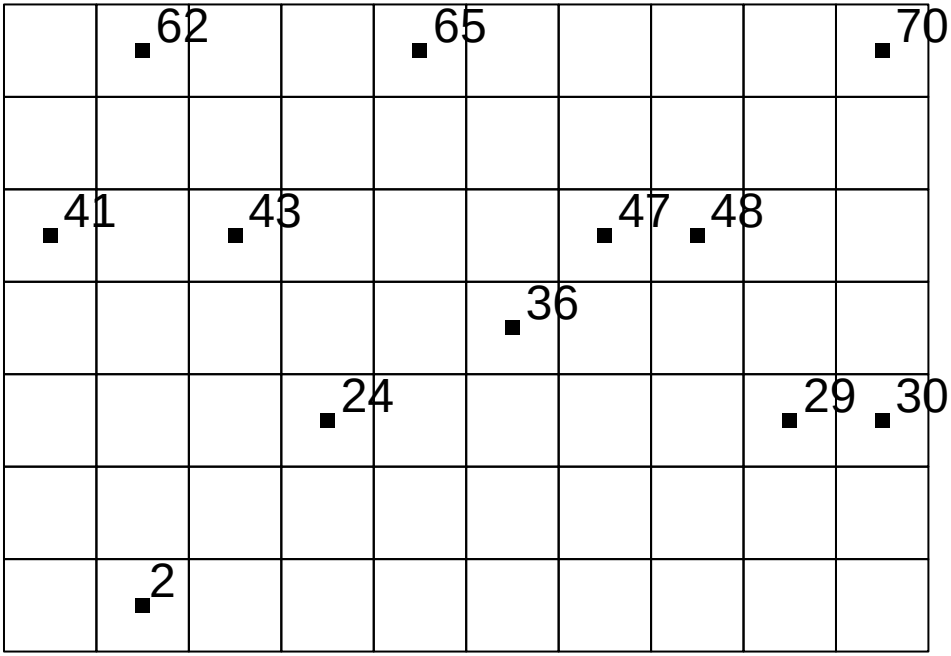

Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision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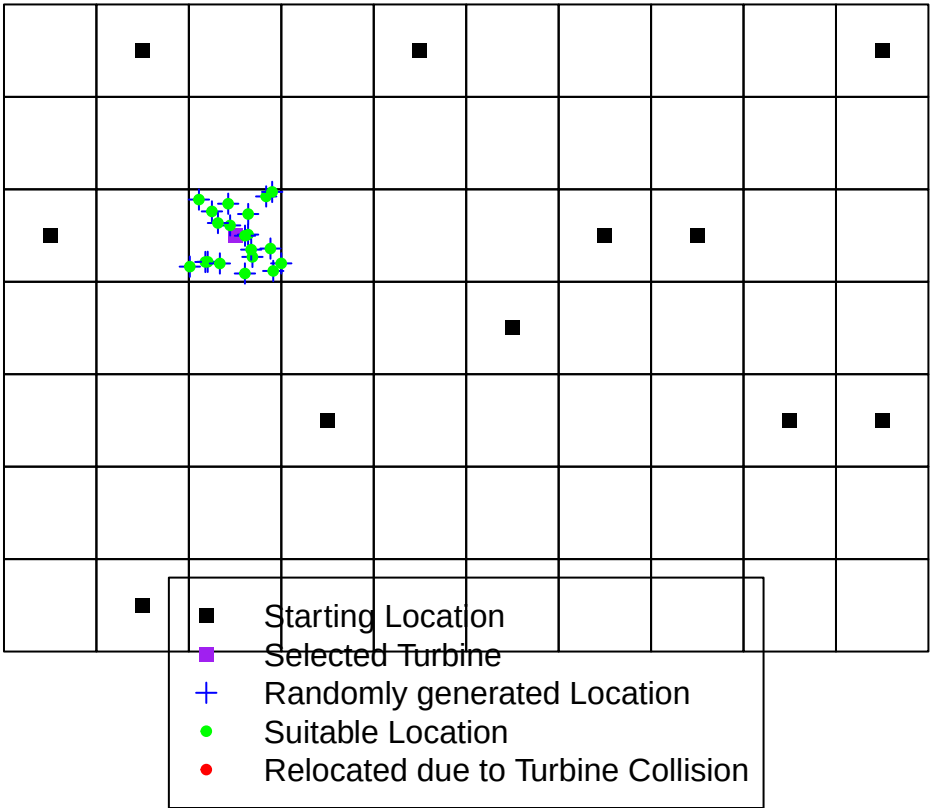
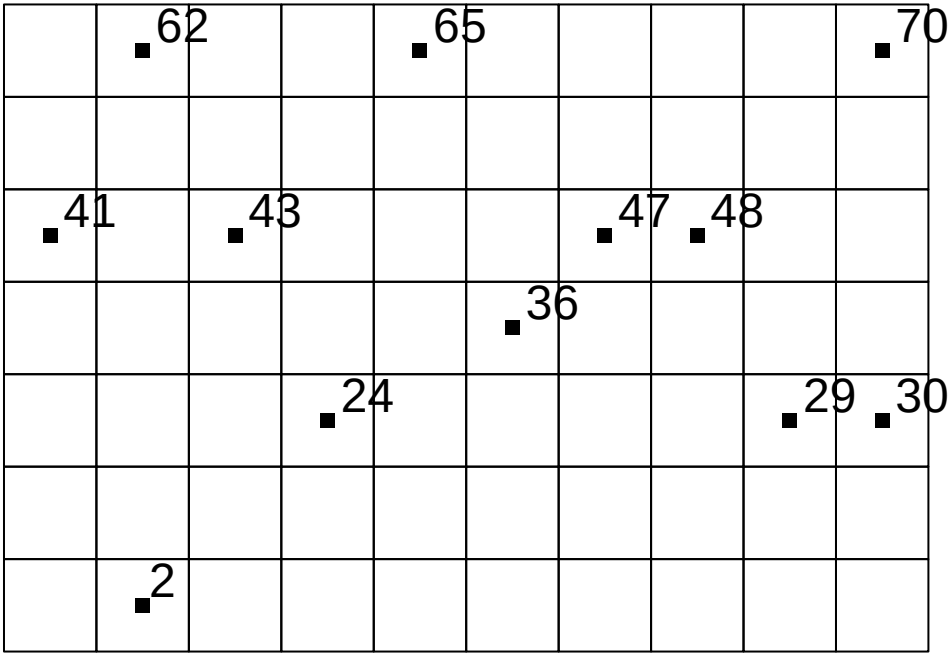

Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision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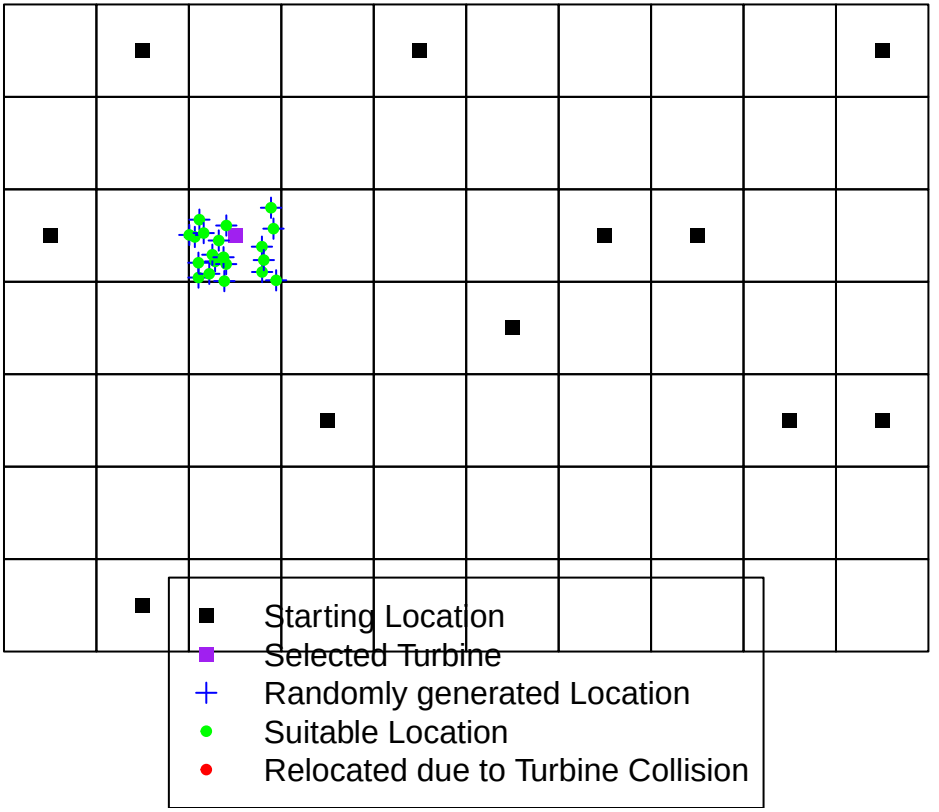
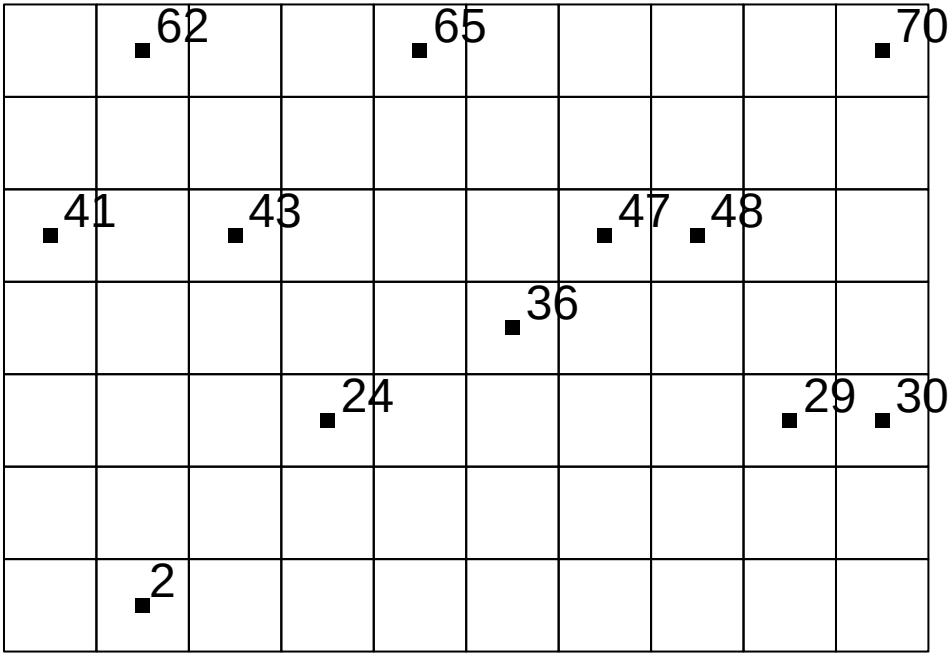

Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision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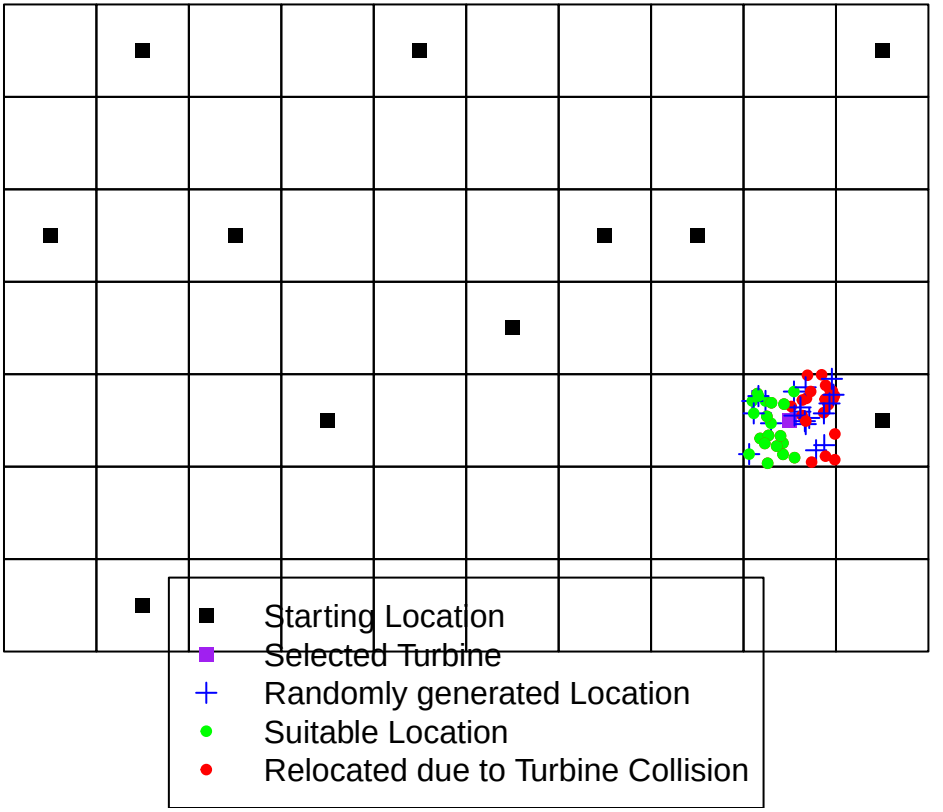
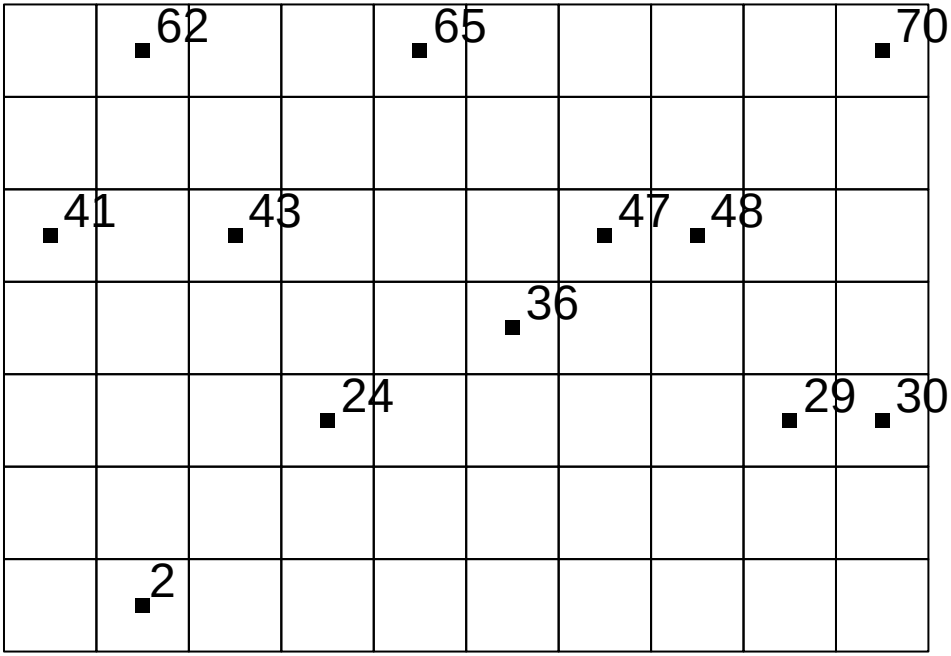

Starting Location
Selected Turbine
Randomly generated Location
Suitable Location
Relocated due to Turbine Collision


62
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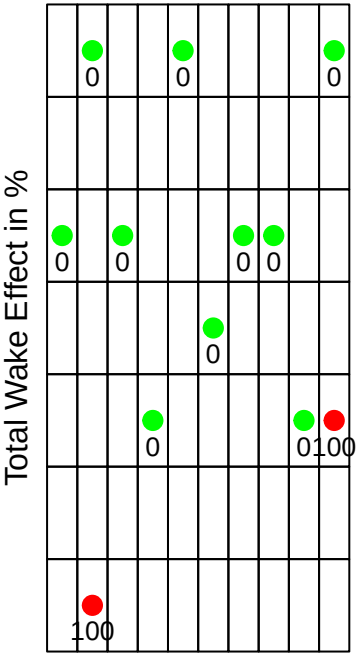
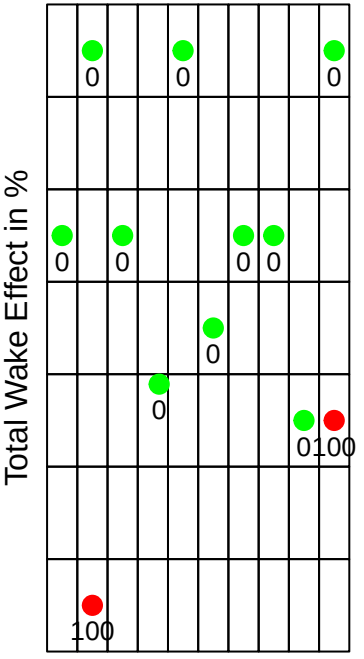
30
2

Original − Best Energy: 2
Energy Output 20485.03 kW
Efficiency: 96.2



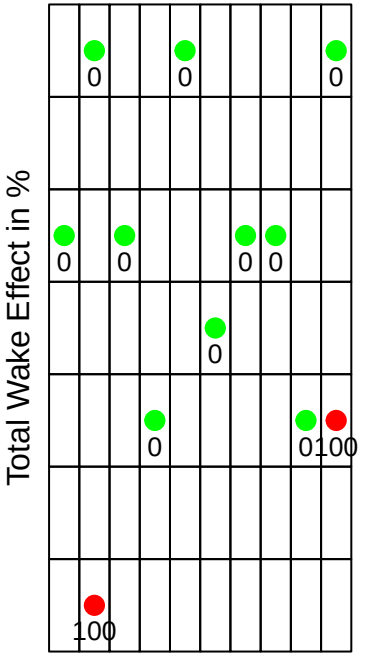
minimal Distance 150
mean Distance 722.39

Random Search − Best Energy: 2
Energy Output 20485.03 kW
Efficiency: 96.2



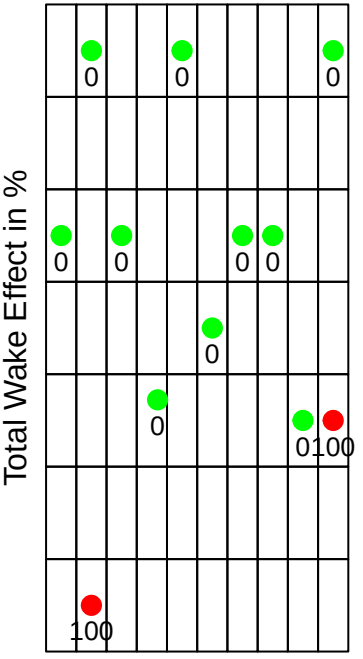
minimal Distance 150
mean Distance 717.06

Original − Best Energy: 1
Energy Output 20485.03 kW
Efficiency: 96.2

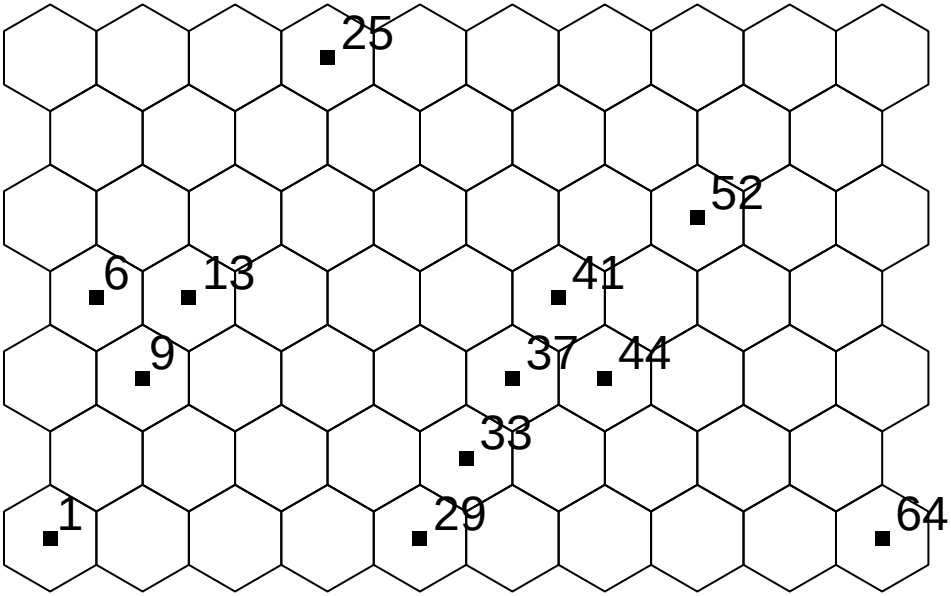


minimal Distance 150
mean Distance 722.39

Random Search − Best Energy: 1
Energy Output 20485.03 kW
Efficiency: 96.2



minimal Distance 150
mean Distance 718.78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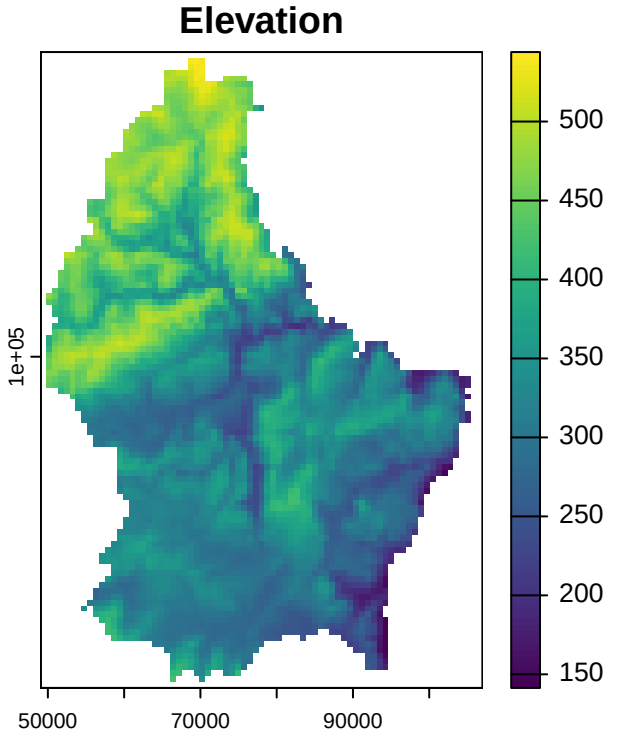
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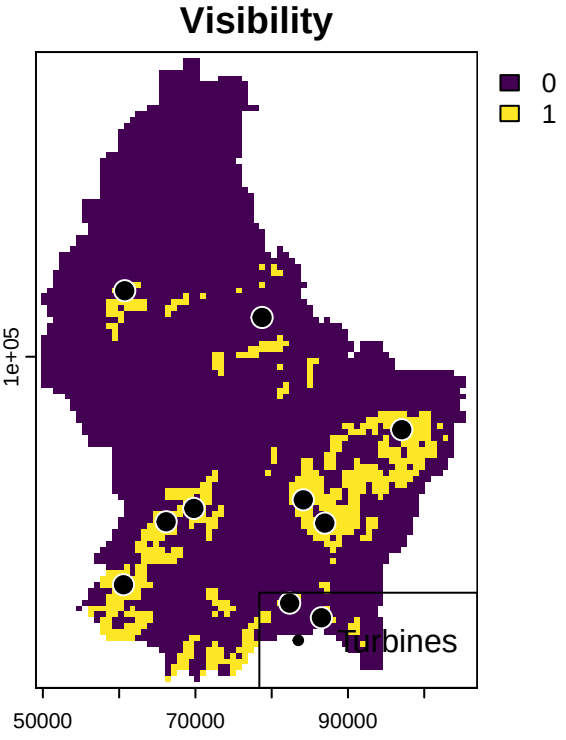
1e+05
50000
70000
90000
500
450
400
350
300
250
200
150


Visibility
1e+05
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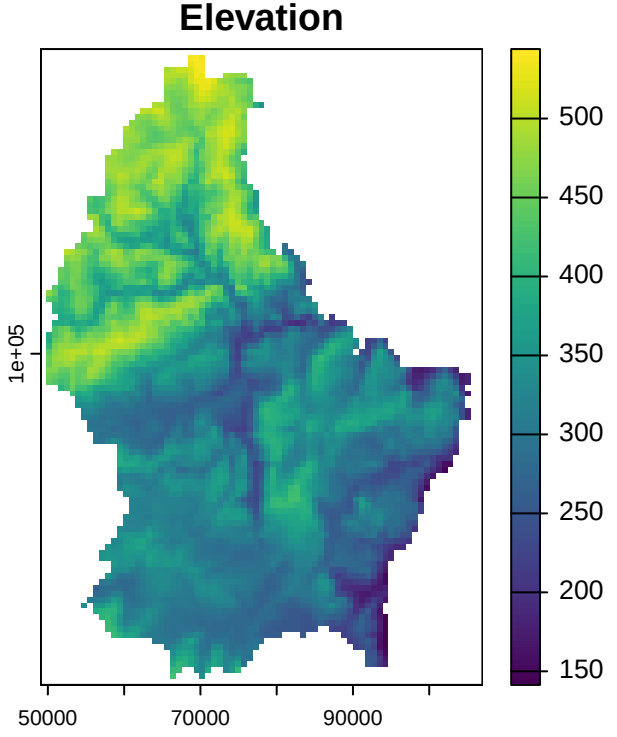
70000
90000
0
1
turbines


Elevation
1e+05
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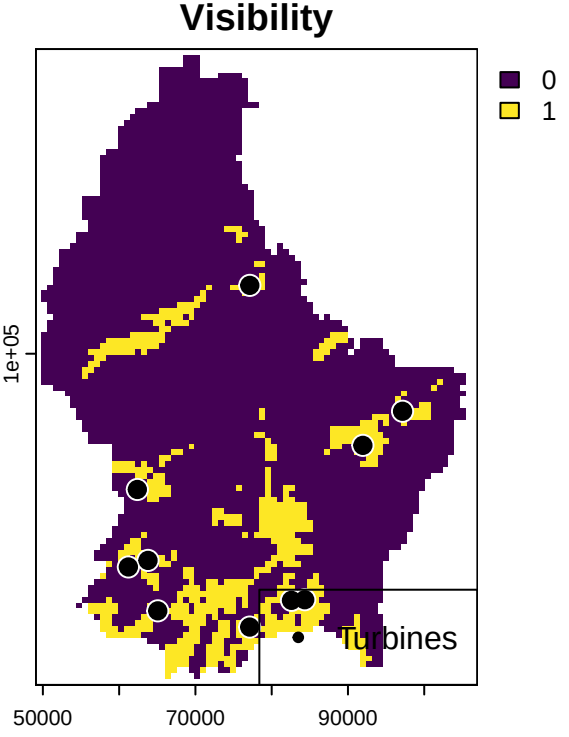
70000
90000
500
450
400
350
300
250
200
150


Visibility
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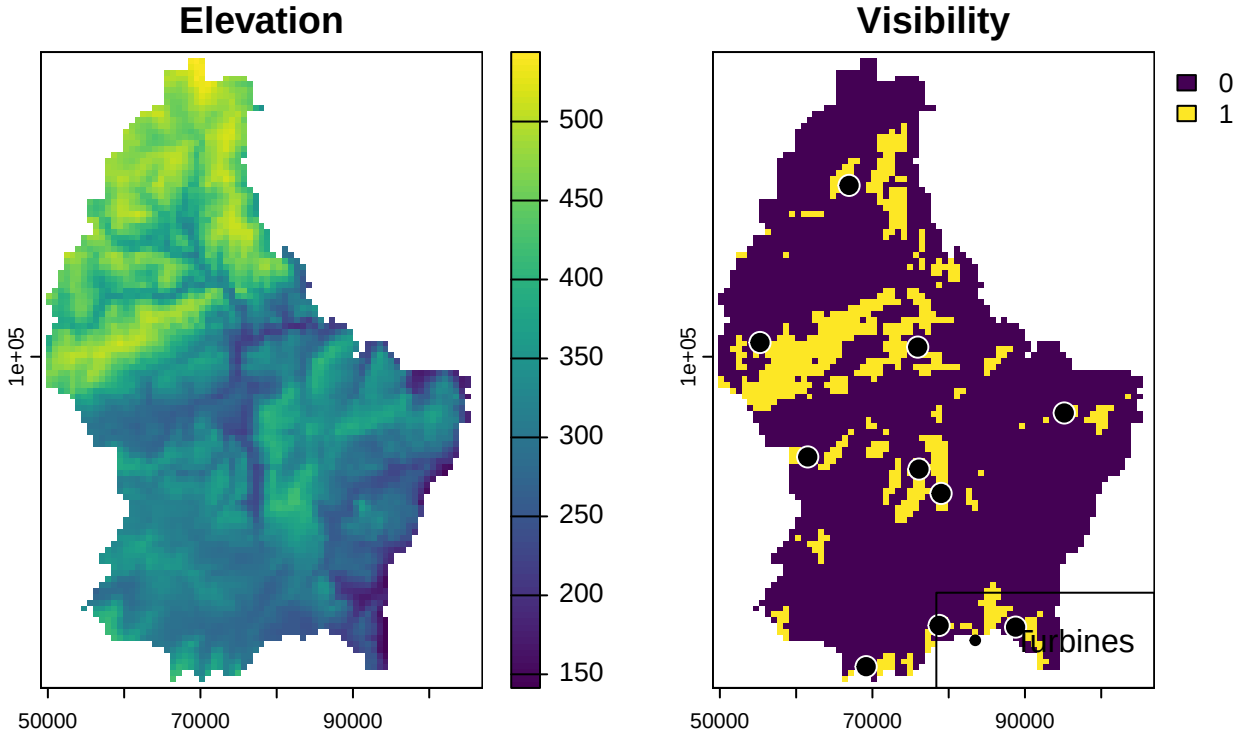
70000
90000
0
1
Turbines


Elevation
1e+05
50000
70000
90000
500
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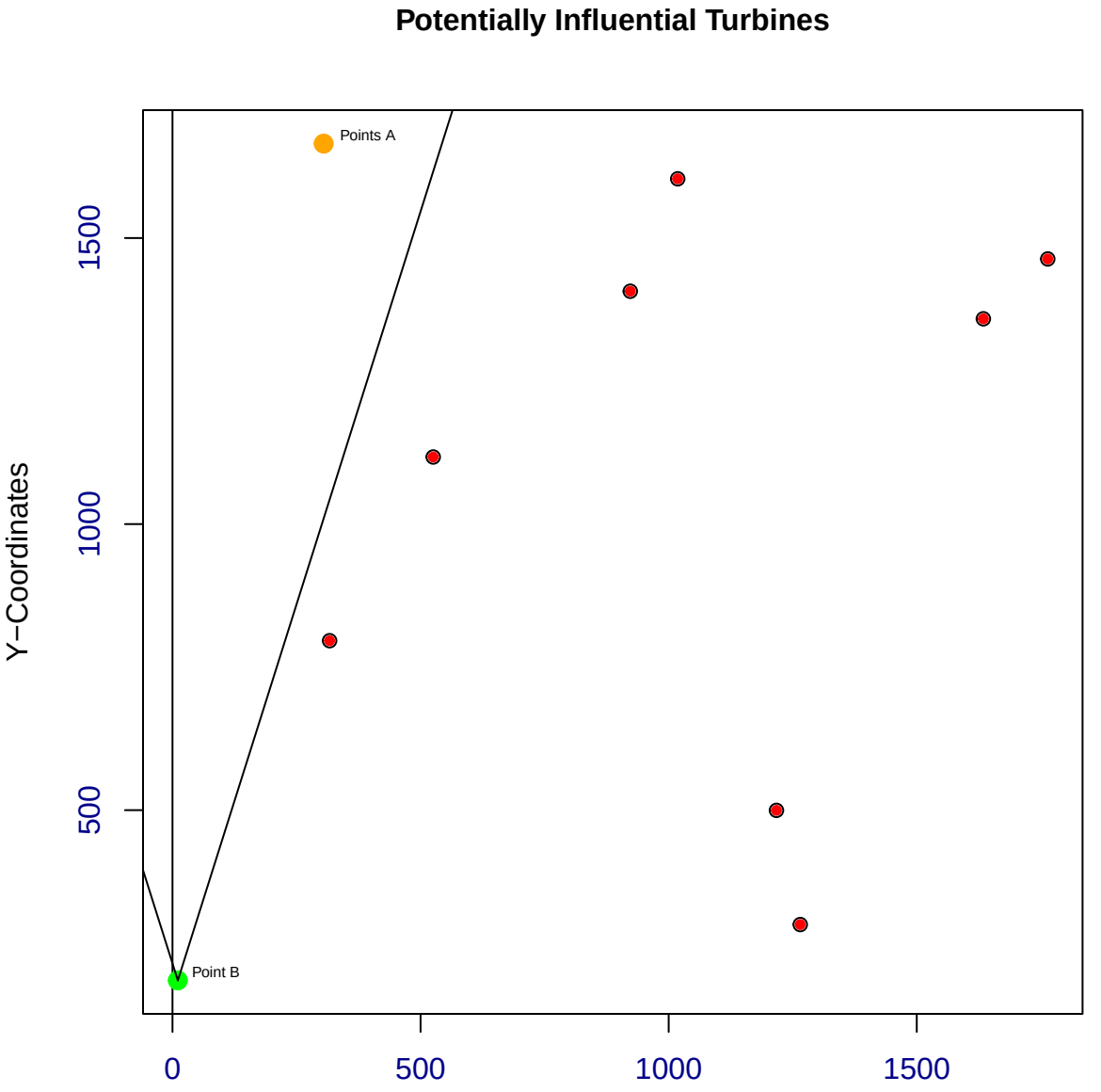
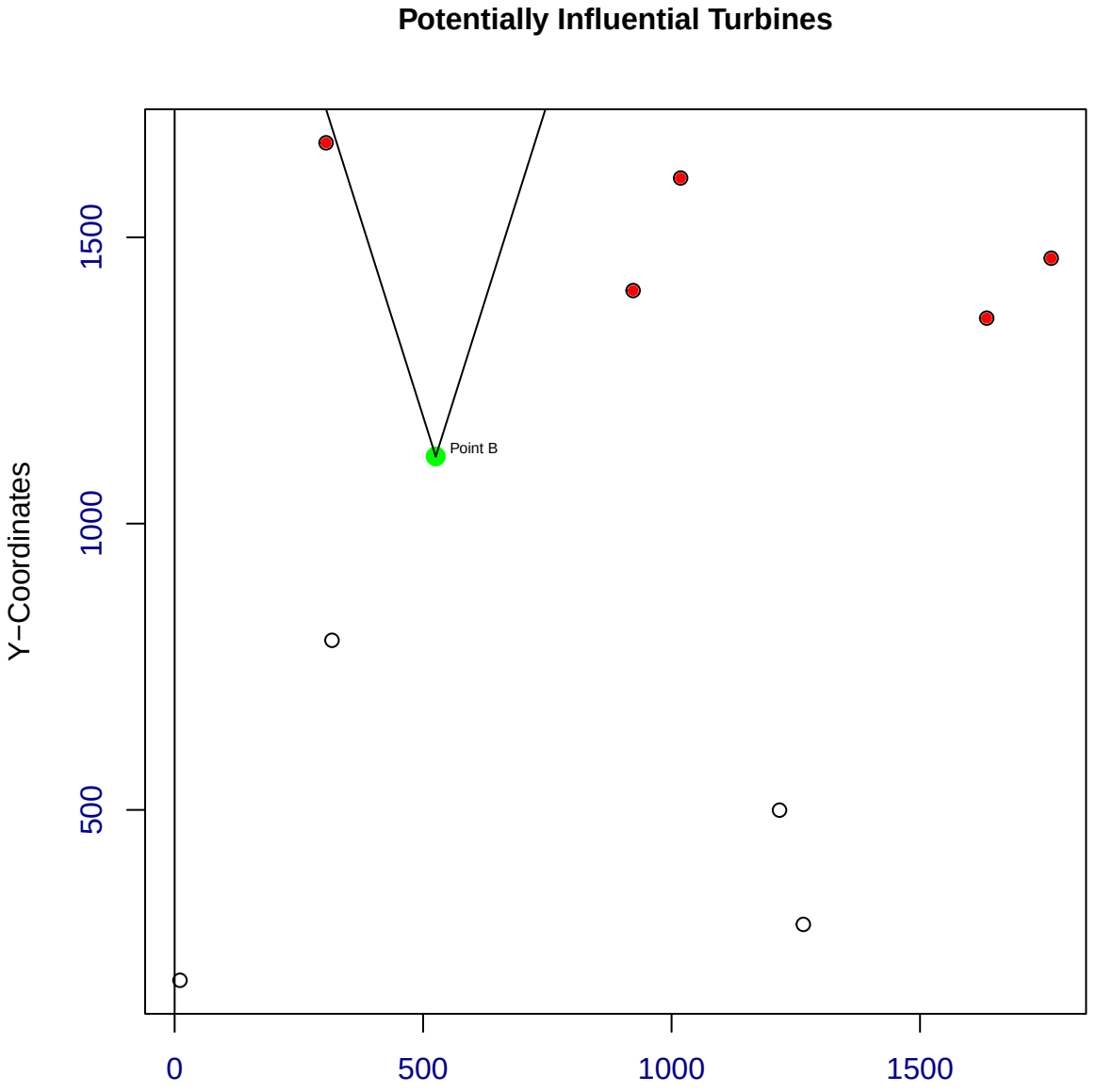
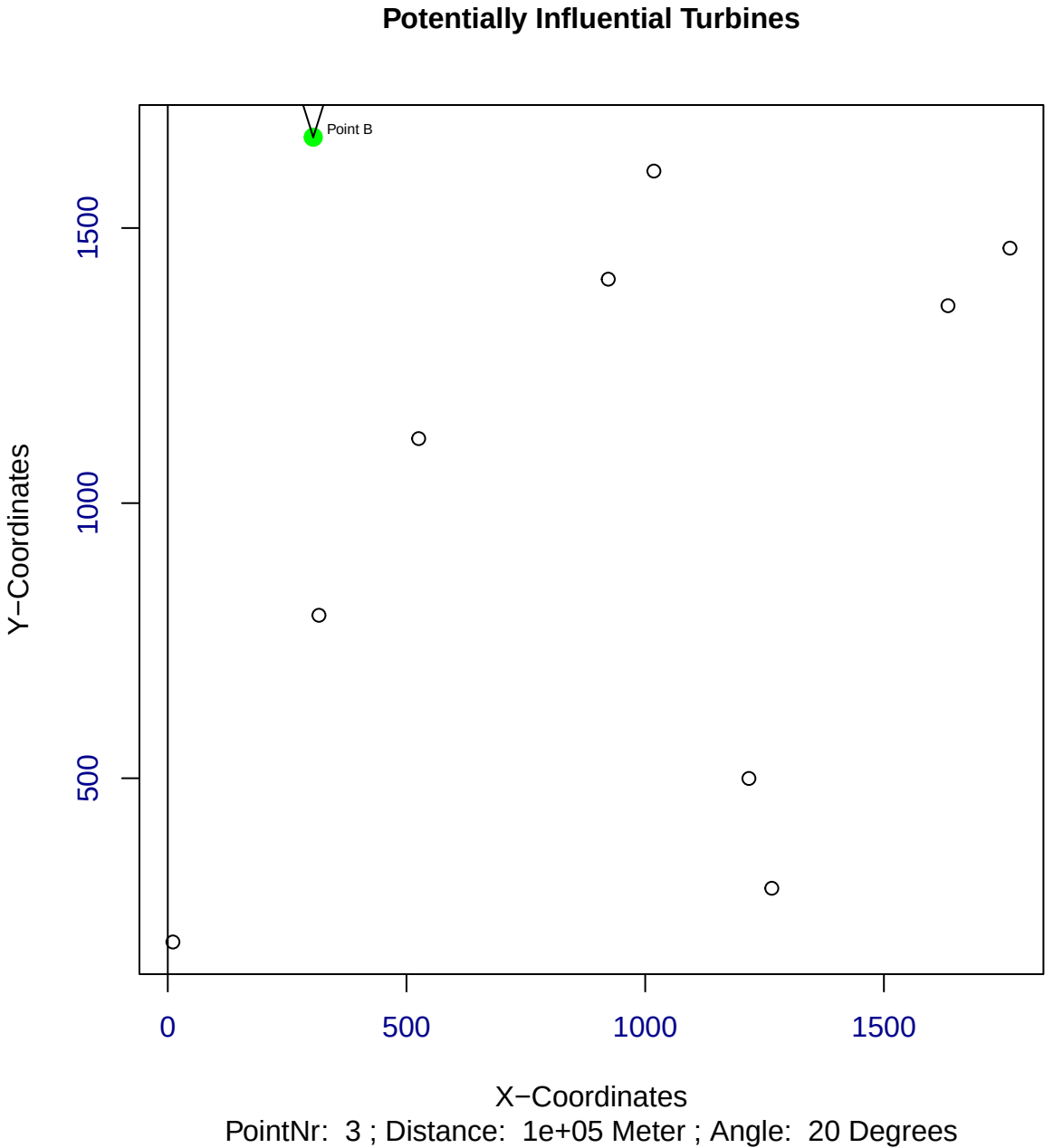
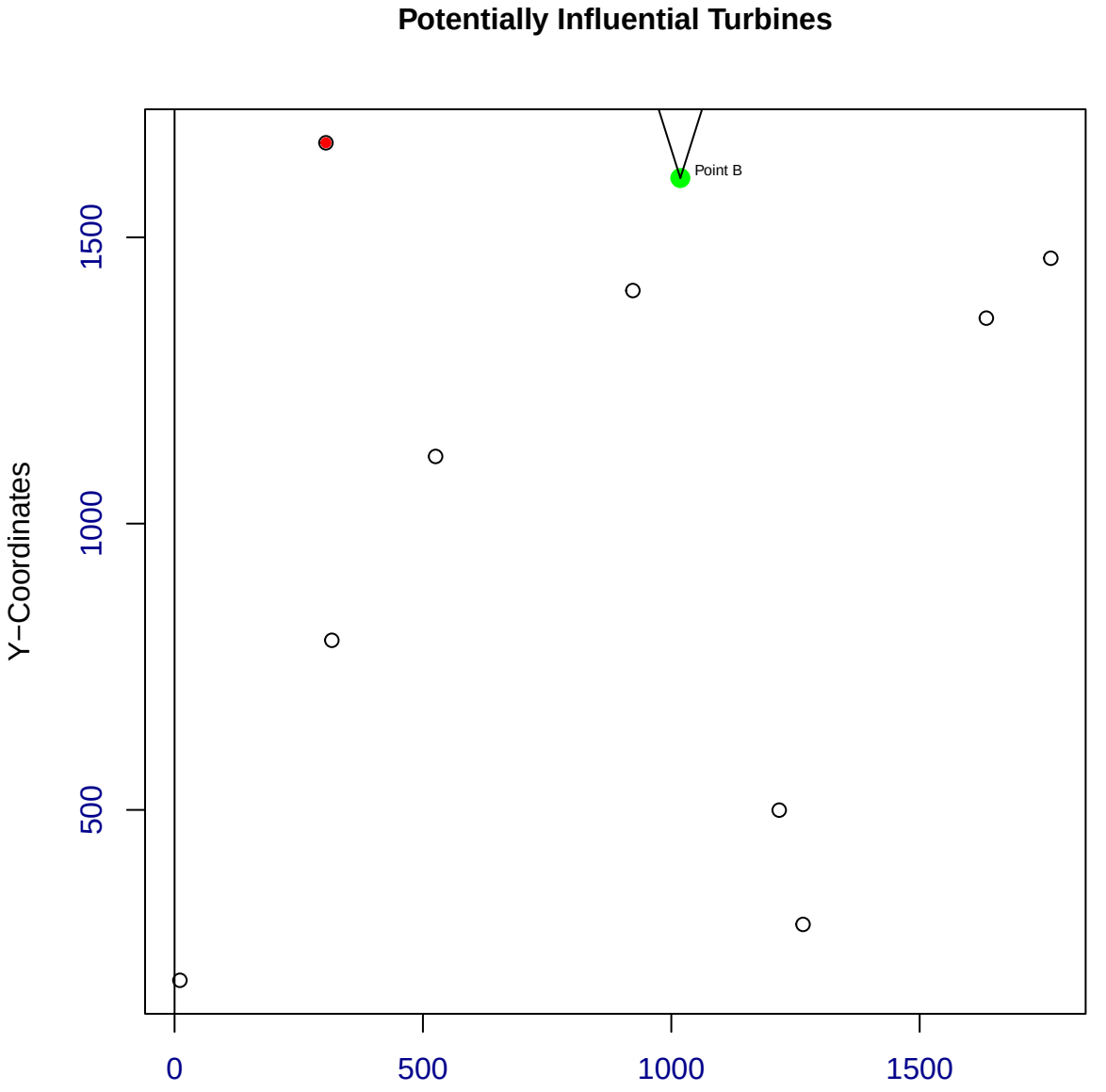
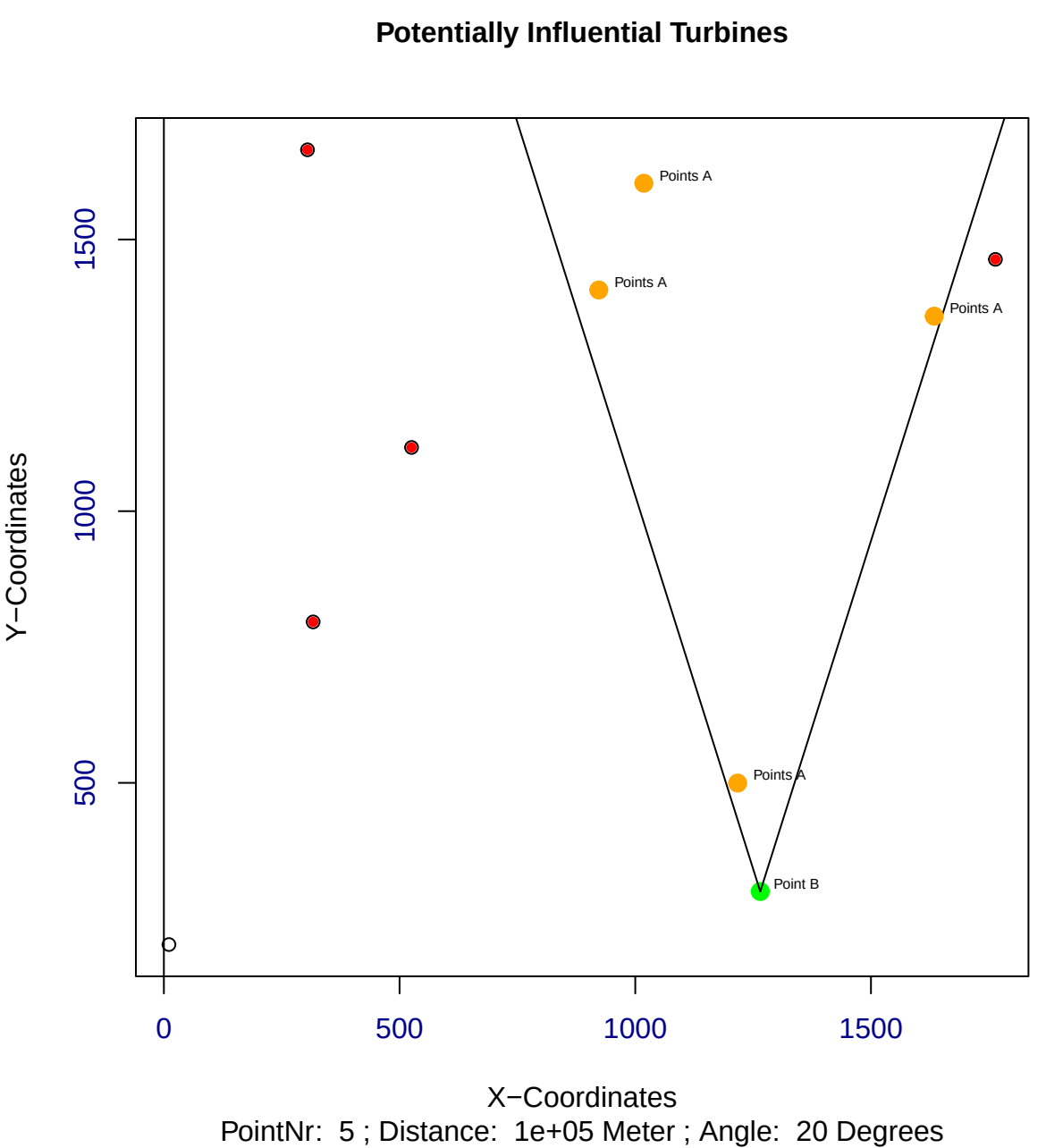
400
350
300
250
200
150
Visibility
1e+05
50000
70000
90000
0
1
turbines

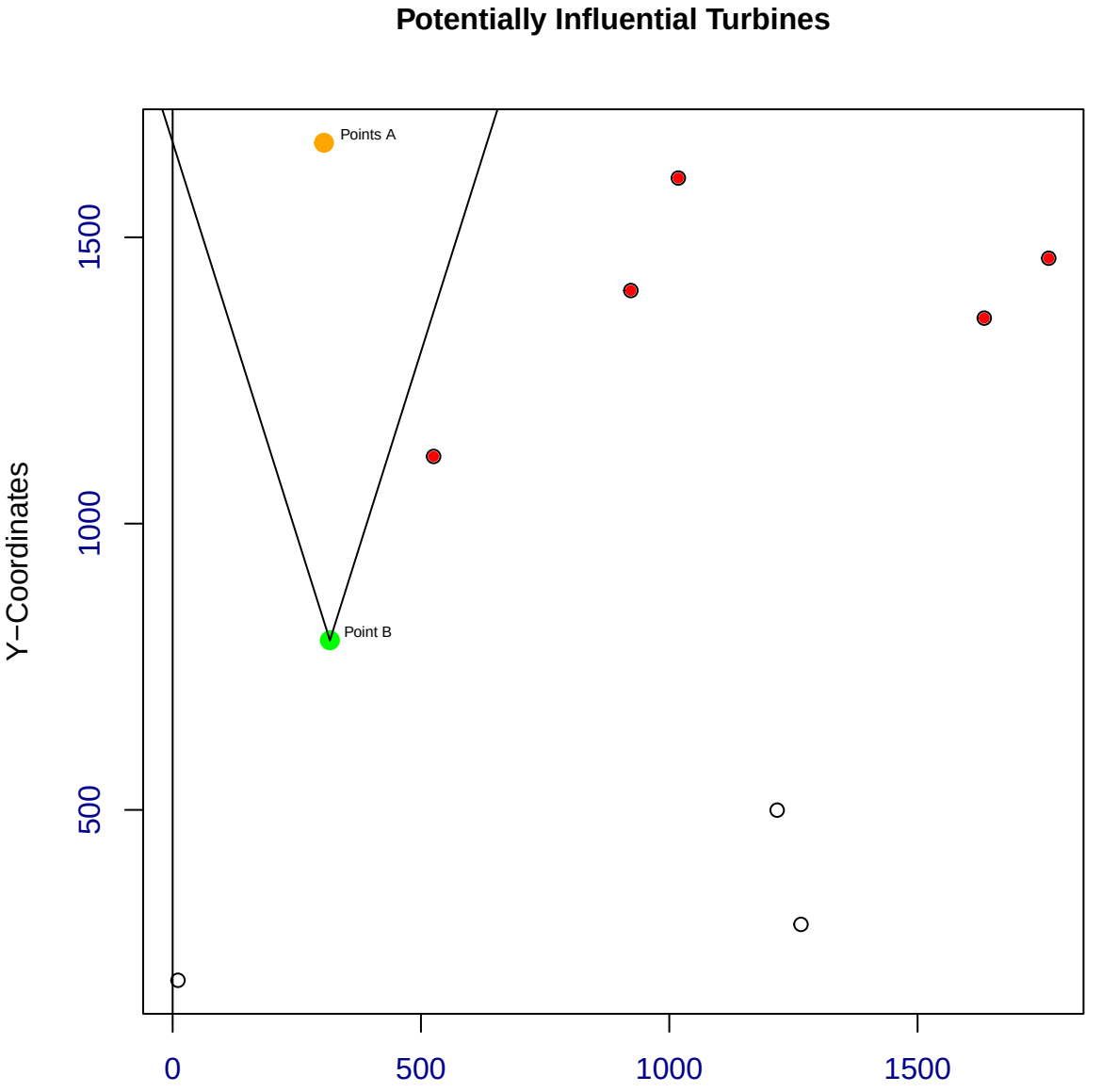

Potentially Influential Turbines
Points A
Point B
Y−Coordinates
X−Coordinates
0
500
1000
1500
PointNr: 1 ; Distance: 1e+05 Meter ; Angle: 20 Degrees

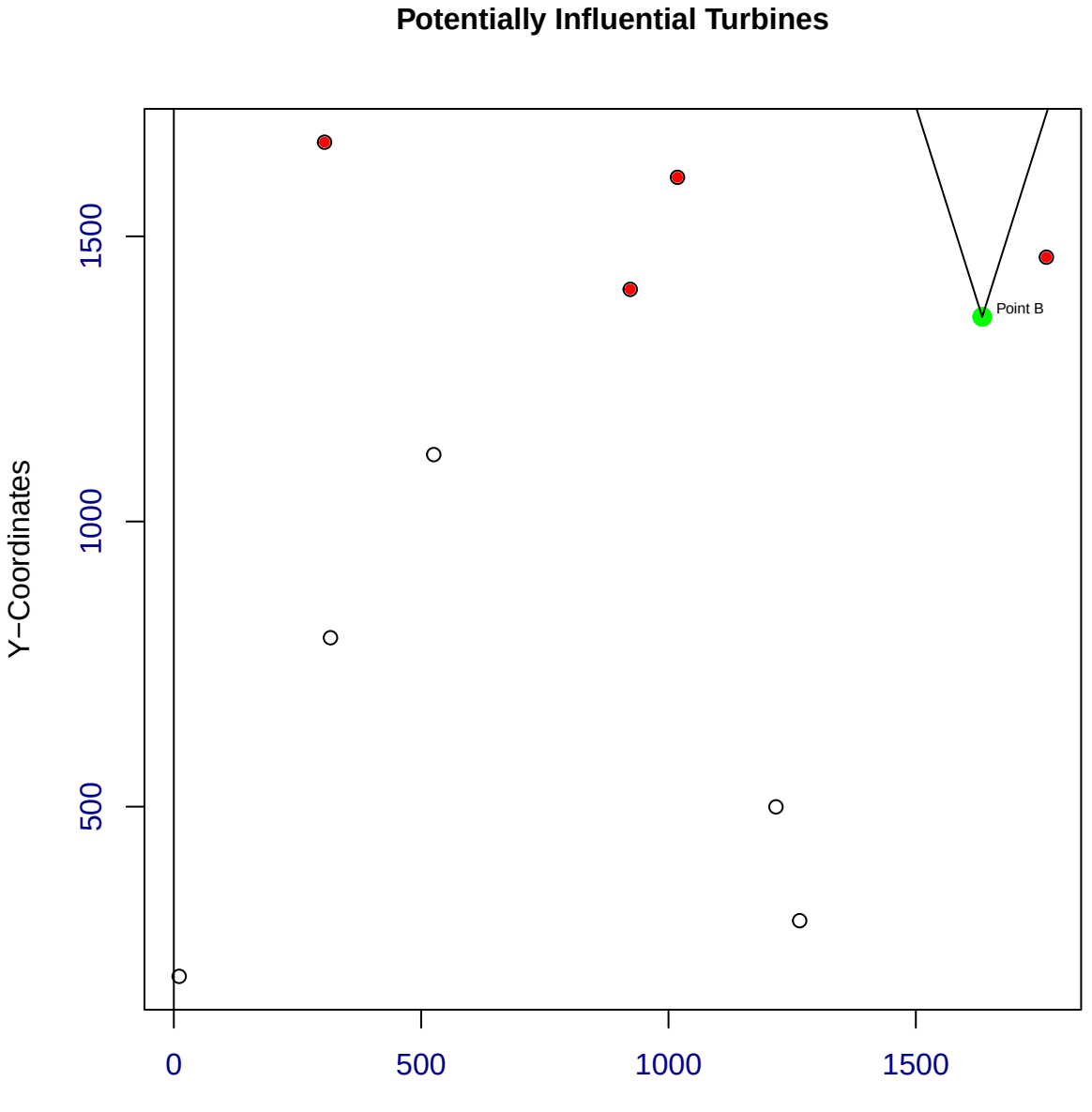

Potentially Influential Turbines
Point B
Y−Coordinates
500
1000
1500
0
500
1000
1500
X−Coordinates
PointNr: 2 ; Distance: 1e+05 Meter ; Angle: 20 Degrees

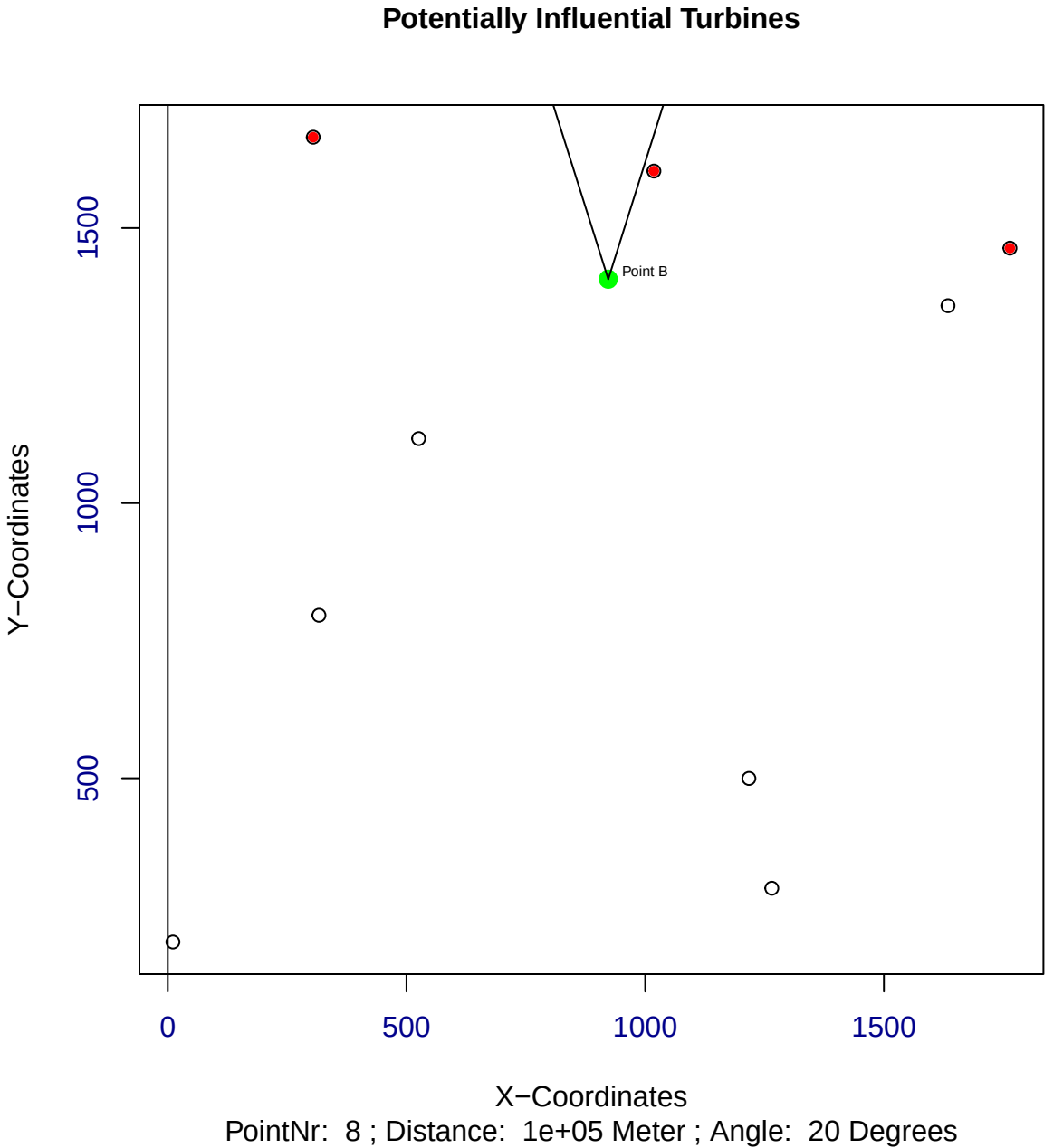

Potentially Influential Turbines
Point B
Y−Coordinates
500
1000
1500
0
500
1000
1500
X−Coordinates
PointNr: 3 ; Distance: 1e+05 Meter ; Angle: 20 Degrees


Potentially Influential Turbines
Point B
Y−Coordinates
X−Coordinates
PointNr: 4 ; Distance: 1e+05 Meter ; Angle: 20 Degrees
0
500
1000
1500
500
1000
1500


Potentially Influential Turbines
Points A
Points A
Points A
Points A
Point B
Y−Coordinates
X−Coordinates
PointNr: 5 ; Distance: 1e+05 Meter ; Angle: 20 Degrees
0
500
1000
1500
500
1000
1500


Potentially Influential Turbines
Points A
Point B
Y−Coordinates
500
1000
1500
0
500
1000
1500
X−Coordinates
PointNr: 6 ; Distance: 1e+05 Meter ; Angle: 20 Degrees


Potentially Influential Turbines
Point B
Y−Coordinates
X−Coordinates
PointNr: 7 ; Distance: 1e+05 Meter ; Angle: 20 Degrees
0
500
1000
1500
500
1000
1500


Potentially Influential Turbines
Point B
Y−Coordinates
X−Coordinates
PointNr: 8 ; Distance: 1e+05 Meter ; Angle: 20 Degrees
0
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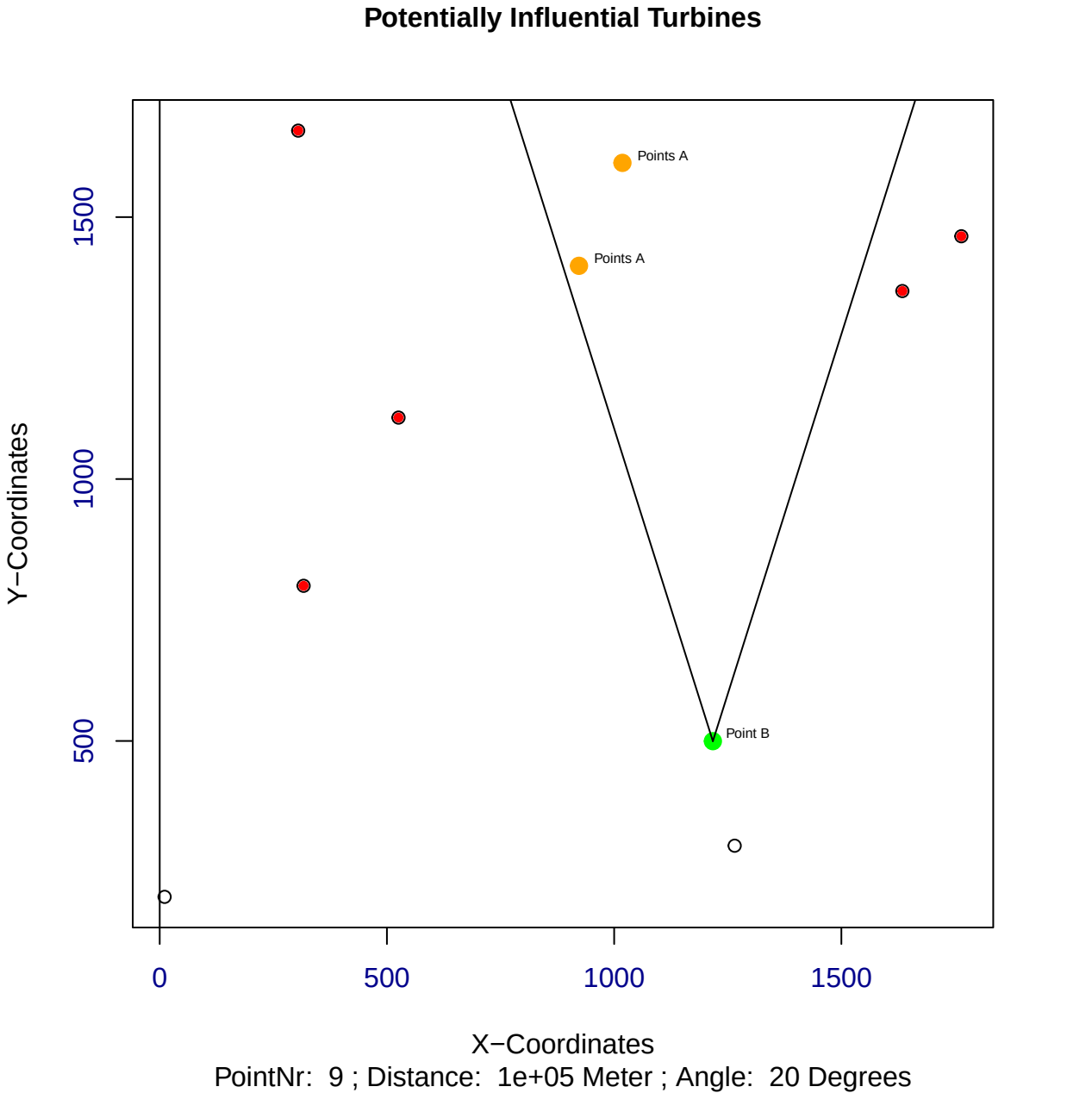
1000
1500
500
1000
1500


Potentially Influential Turbines
Points A
Points A
Point B
Y−Coordinates
X−Coordinates
PointNr: 9 ; Distance: 1e+05 Meter ; Angle: 20 Degrees
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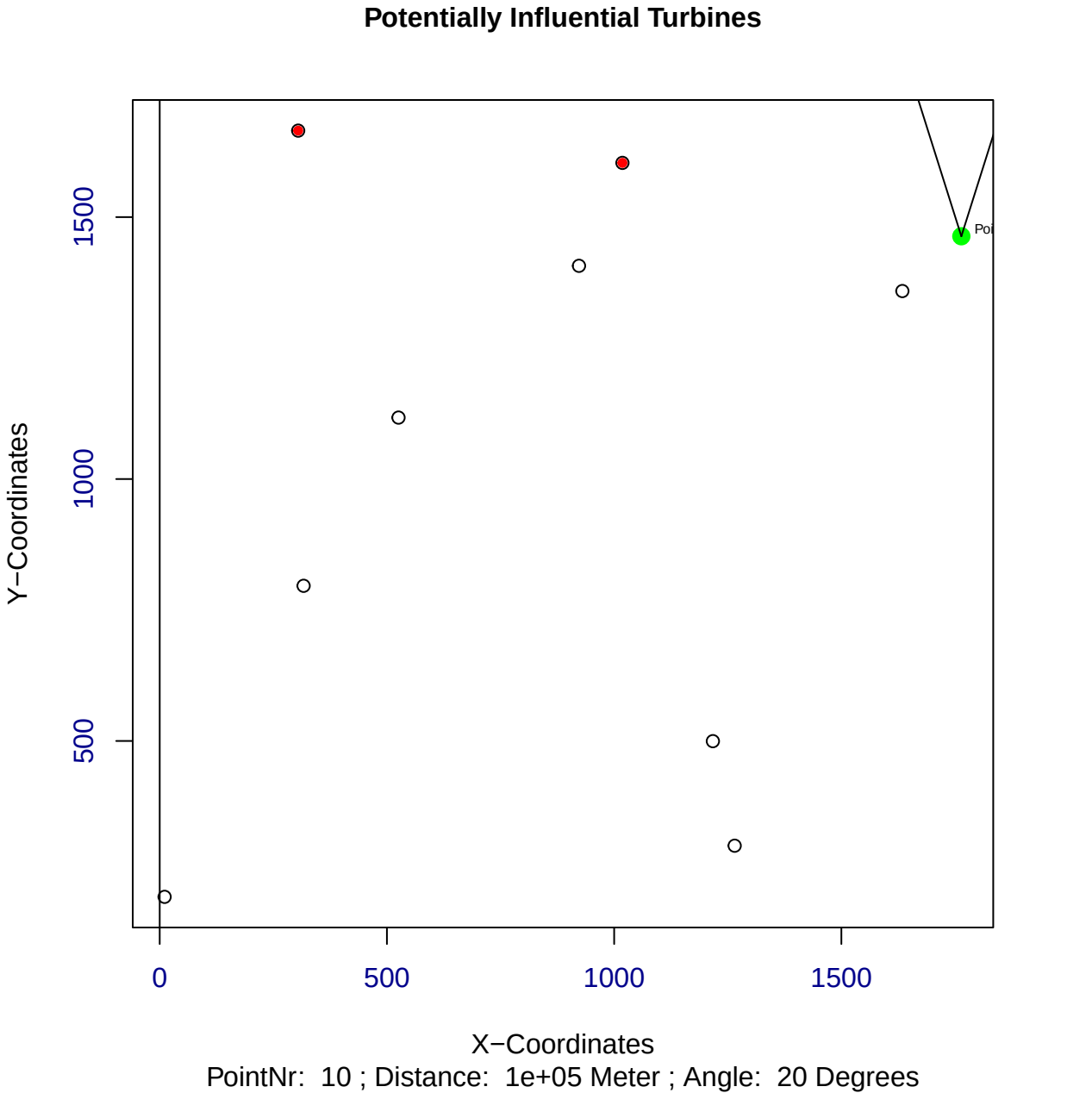
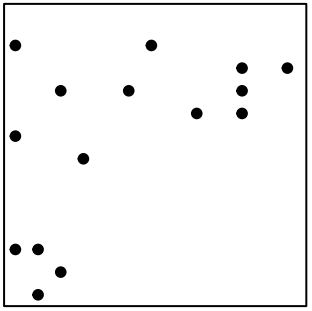
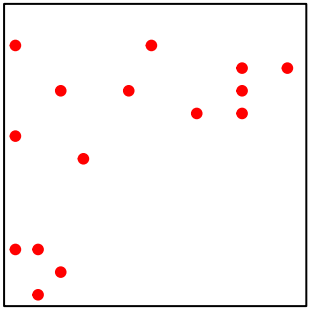
1000
1500
500
1000
1500


Potentially Influential Turbines
Y−Coordinates
500
1000
1500
0
500
1000
1500
X−Coordinates
PointNr: 10 ; Distance: 1e+05 Meter ; Angle: 20 Degrees

Shape at angle 0



Shape at angle: 0



Direction: 1
from total: 1