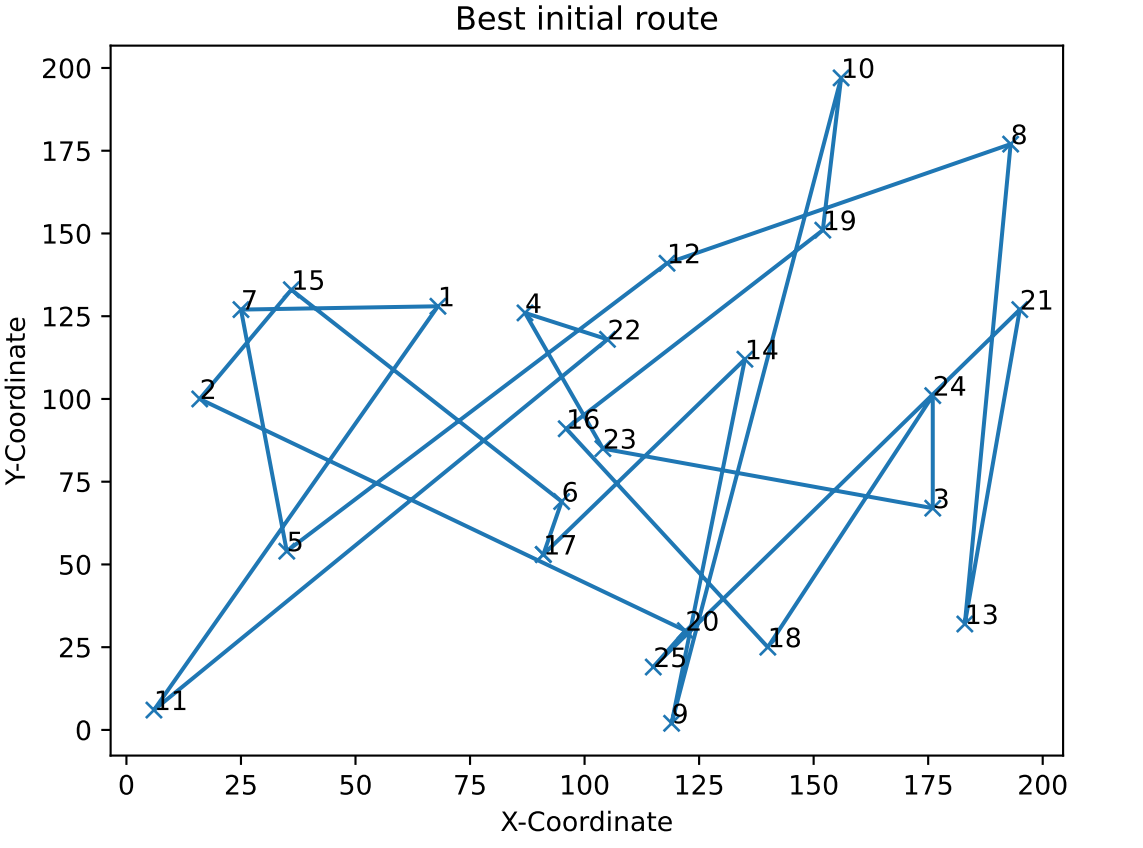
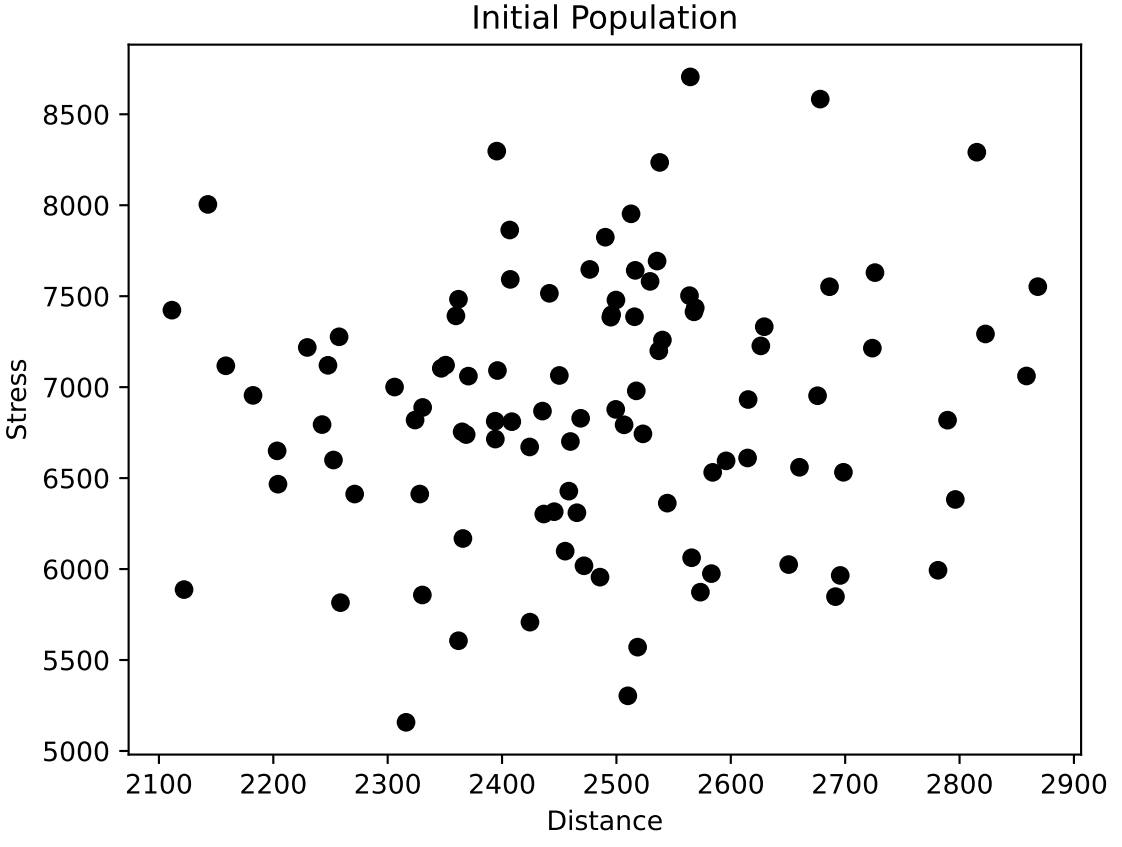
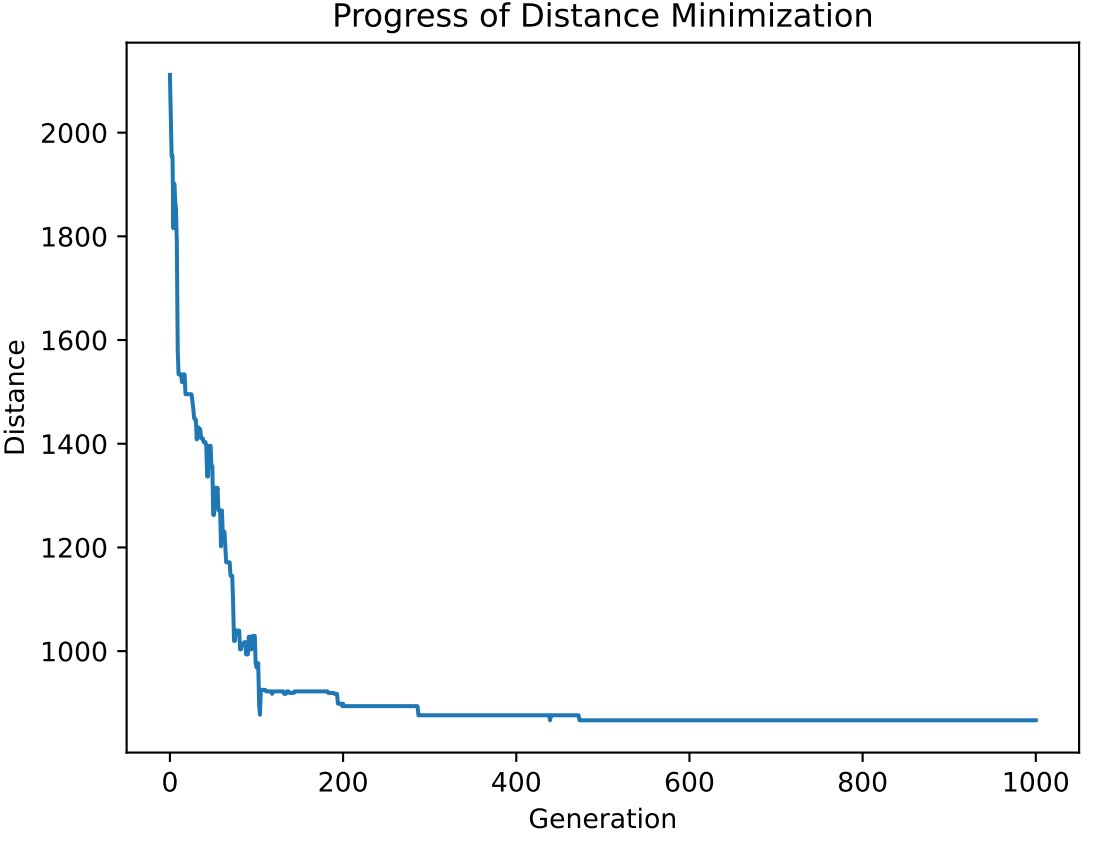
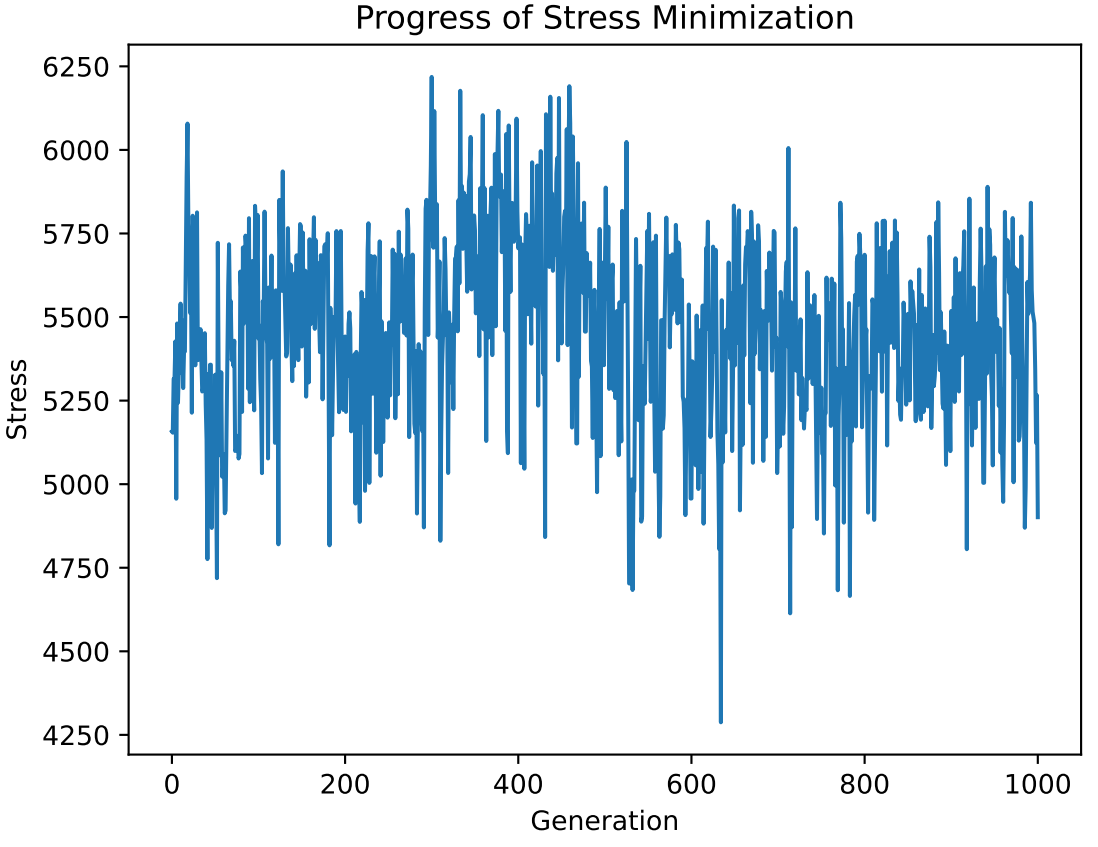
Objective: 1 | popSize: 100 | eliteSize: 10 | mutationRate: 0.01 | generations: 1000

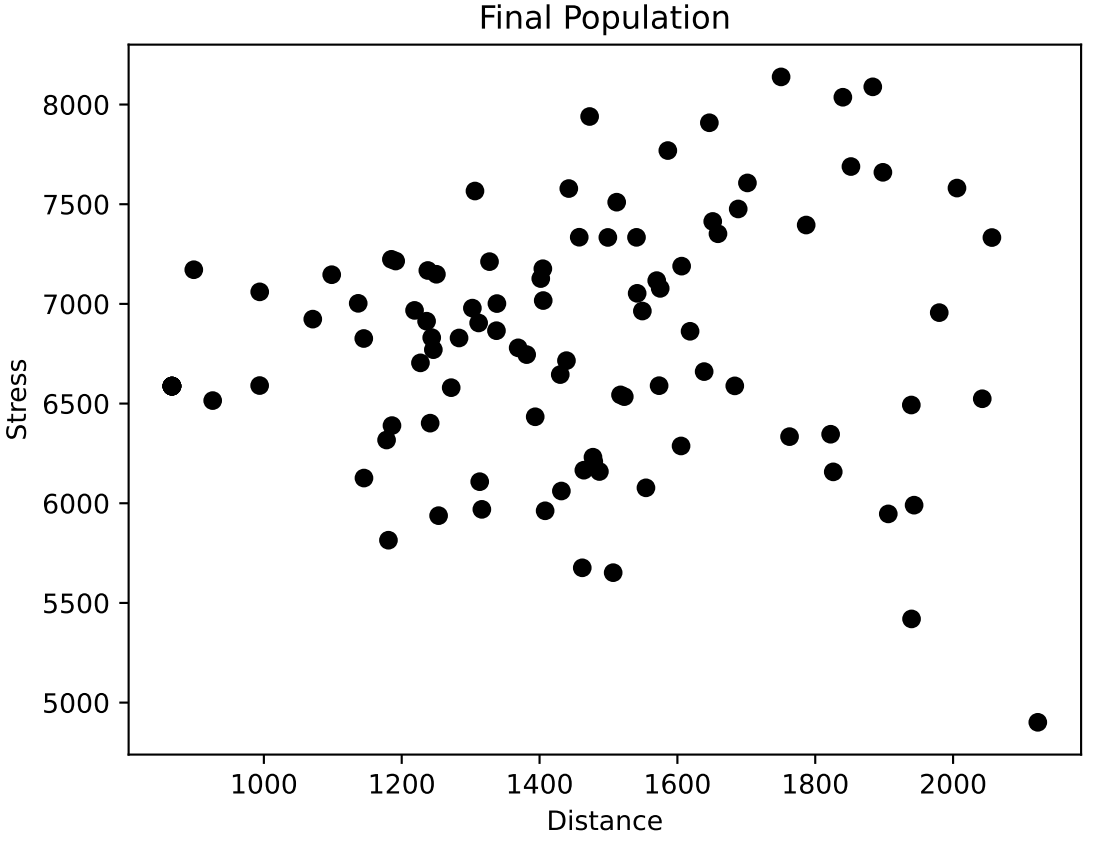

Best initial route
Y-Coordinate
X-Coordinate
0
25
50
75
100
125
150
175
200
10
8
19
12
15
7
1
4
22
21
14
2
24
16
23
6
3
5
17
20
13
18
25
9
11


Initial Population
Stress
Distance
8500
8000
7500
7000
6500
6000
5500
5000
2100
2200
2300
2400
2500
2600
2700
2800
2900

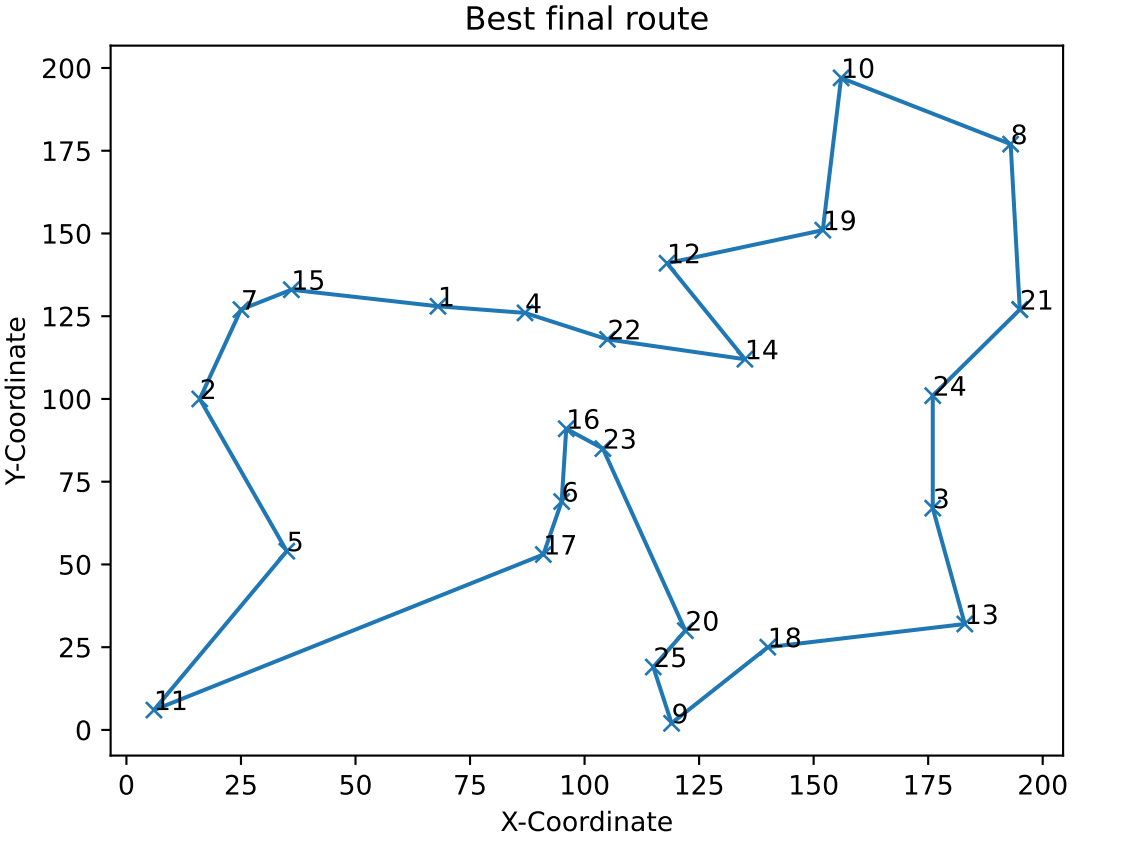

Progress of Distance Minimization
Distance
2000
1800
1600
1400
1200
1000
0
200
400
600
800
1000
Generation


Progress of Stress Minimization
Stress
Generation
6250
6000
5750
5500
5250
5000
4750
4500
4250
0
200
400
600
800
1000

Initial distance : 2111.3530458987047
Initial stress: 7423.200000000001
Initial objective: 2111.3530458987047
Final objective: 866.5775241690226
Final distance : 866.5775241690226
Final stress: 6587.6


Final Population
Stress
Distance
8000
7500
7000
6500
6000
5500
5000
1000
1200
1400
1600
1800
2000

[21, 8, 10, 19, 12, 14, 22, 4, 1, 15, 7, 2, 5, 11, 17, 6, 16, 23, 20, 25, 9, 18, 13, 3, 24]


Best final route
Y-Coordinate
X-Coordinate
0
25
50
75
100
125
150
175
200
10
8
19
12
15
7
1
4
21
22
14
24
2
16
23
6
3
5
17
20
13
18
25
11
9