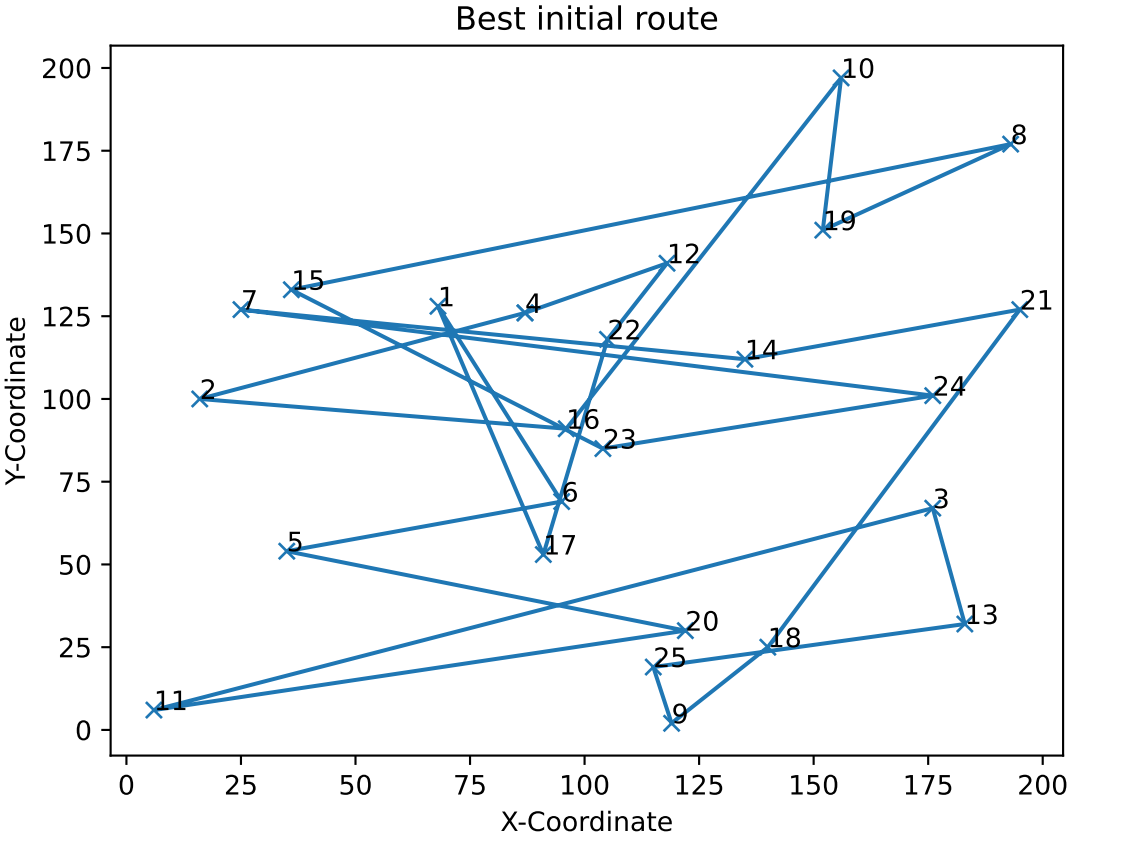
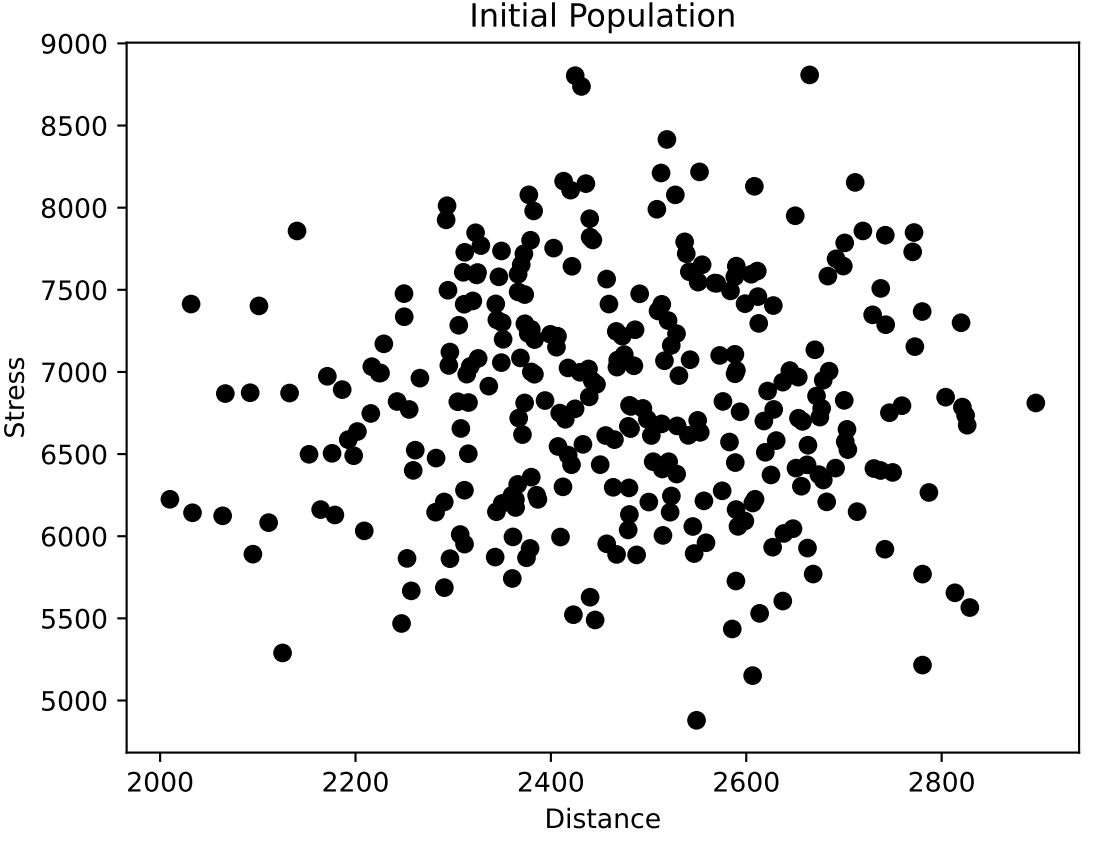
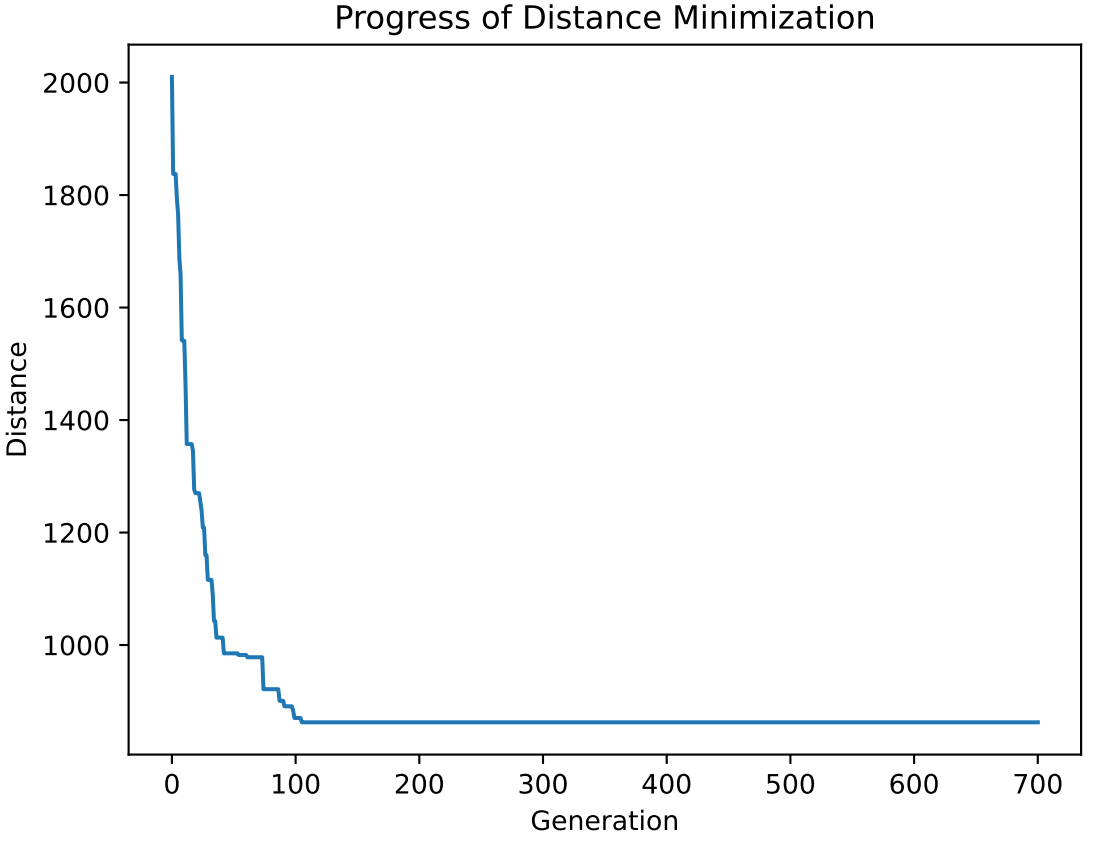
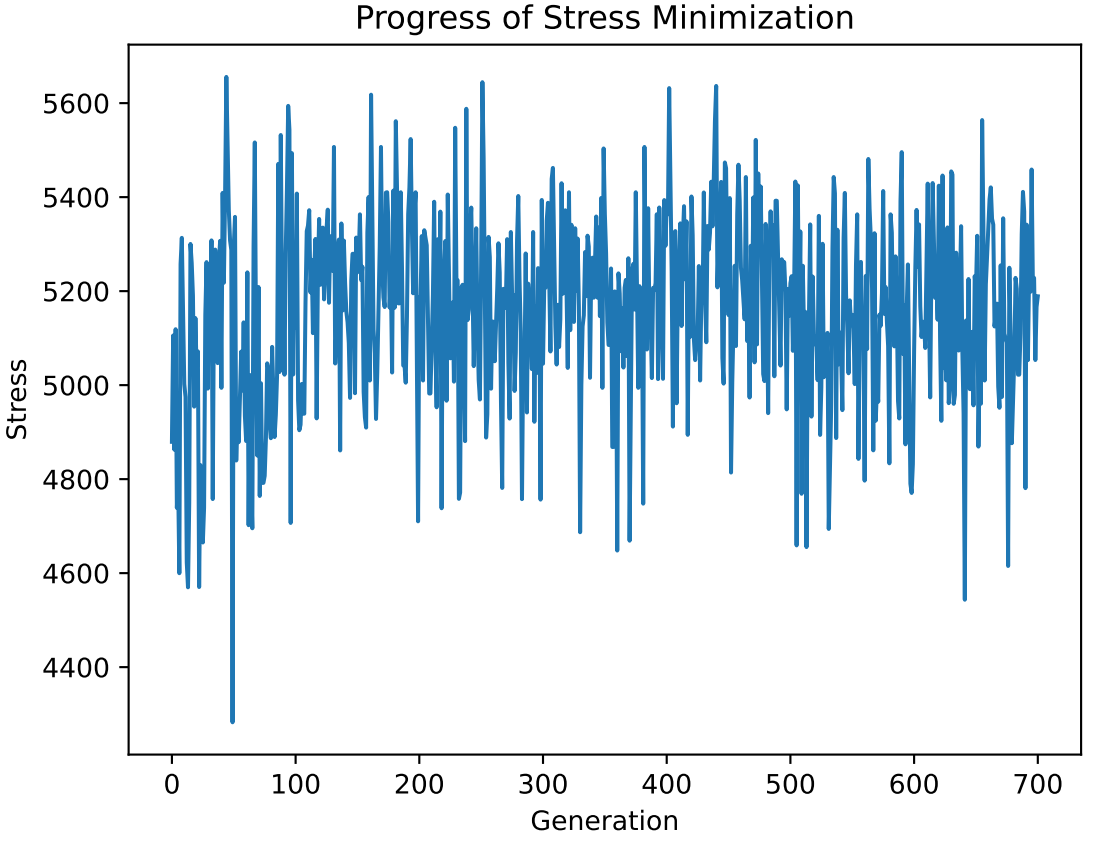
[C1_(68,128)_(T:8), C2_(16,100)_(T:14), C3_(176,67)_(T:7), C4_(87,126)_(T:27), C5_(35,54)_(T:38), C6_(95,69)_(T:1), C7_(25,127)_(T:12), C8_(193,177)_(T:23), C9_(119,2)_(T:4), C10_(156,197)_(T:11), C11_(6,6)_(T:9), C12_(118,141)_(T:6), C13_(183,32)_(T:39), C14_(135,112)_(T:24), C15_(36,133)_(T:9), C16_(96,91)_(T:12), C17_(91,53)_(T:16), C18_(140,25)_(T:37), C19_(152,151)_(T:24), C20_(122,30)_(T:15), C21_(195,127)_(T:31), C22_(105,118)_(T:3), C23_(104,85)_(T:25), C24_(176,101)_(T:12), C25_(115,19)_(T:26)]

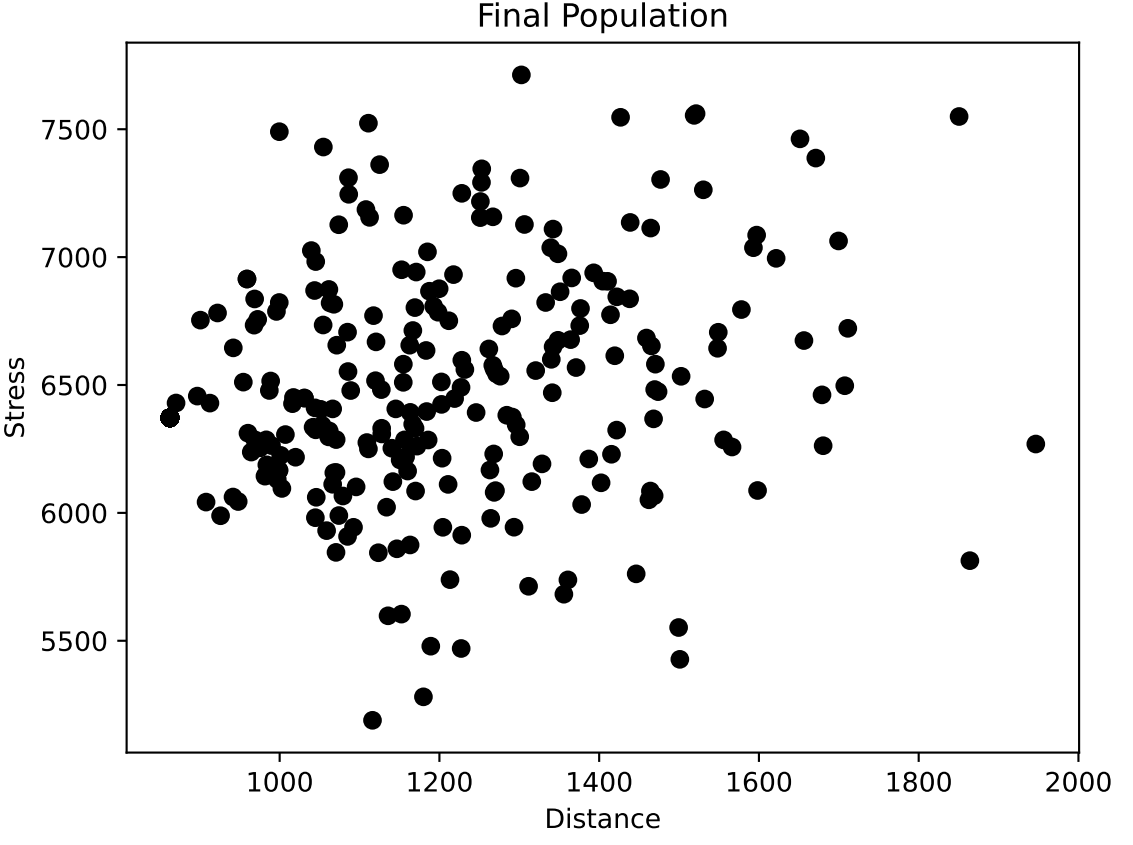

Best initial route
Y-Coordinate
X-Coordinate
0
25
50
75
100
125
150
175
200
10
8
19
12
15
1
4
7
21
22
14
24
2
16
23
6
3
17
5
20
13
18
25
9
11


Initial Population
9000
8500
8000
7500
7000
6500
6000
5500
5000
Stress
2000
2200
2400
2600
2800
Distance

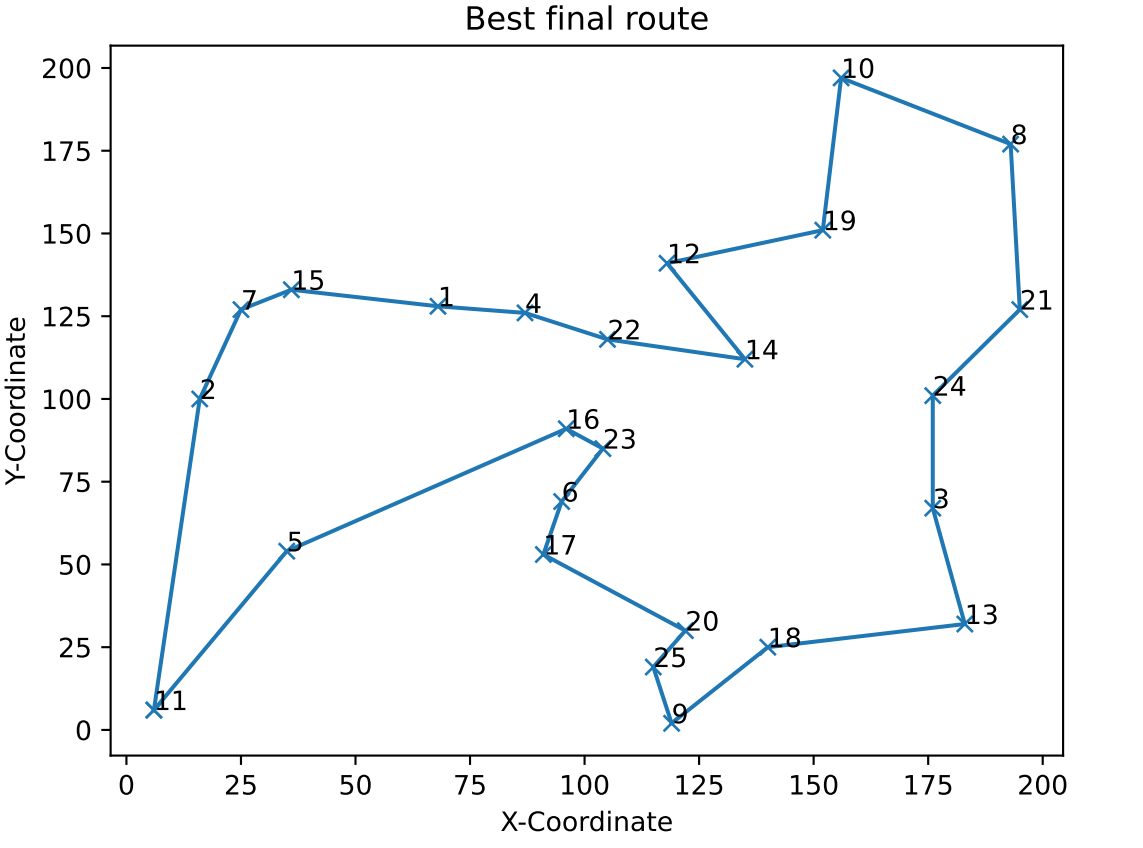

Progress of Distance Minimization
Distance
Generation
2000
1800
1600
1400
1200
1000
0
100
200
300
400
500
600
700


Progress of Stress Minimization
Stress
5600
5400
5200
5000
4800
4600
4400
0
100
200
300
400
500
600
700
Generation

Initial distance : 2010.0315342549272
Initial stress: 6224.8
Initial objective: 2010.0315342549275
Final objective: 862.6187465869773
Final distance : 862.6187465869772
Final stress: 6371.599999999999


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

[C11_(6,6)_(T:9), C2_(16,100)_(T:14), C7_(25,127)_(T:12), C15_(36,133)_(T:9), C1_(68,128)_(T:8), C4_(87,126)_(T:27), C22_(105,118)_(T:3), C14_(135,112)_(T:24), C12_(118,141)_(T:6), C19_(152,151)_(T:24), C10_(156,197)_(T:11), C8_(193,177)_(T:23), C21_(195,127)_(T:31), C24_(176,101)_(T:12), C3_(176,67)_(T:7), C13_(183,32)_(T:39), C18_(140,25)_(T:37), C9_(119,2)_(T:4), C25_(115,19)_(T:26), C20_(122,30)_(T:15), C17_(91,53)_(T:16), C6_(95,69)_(T:1), C23_(104,85)_(T:25), C16_(96,91)_(T:12), C5_(35,54)_(T:38)]


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