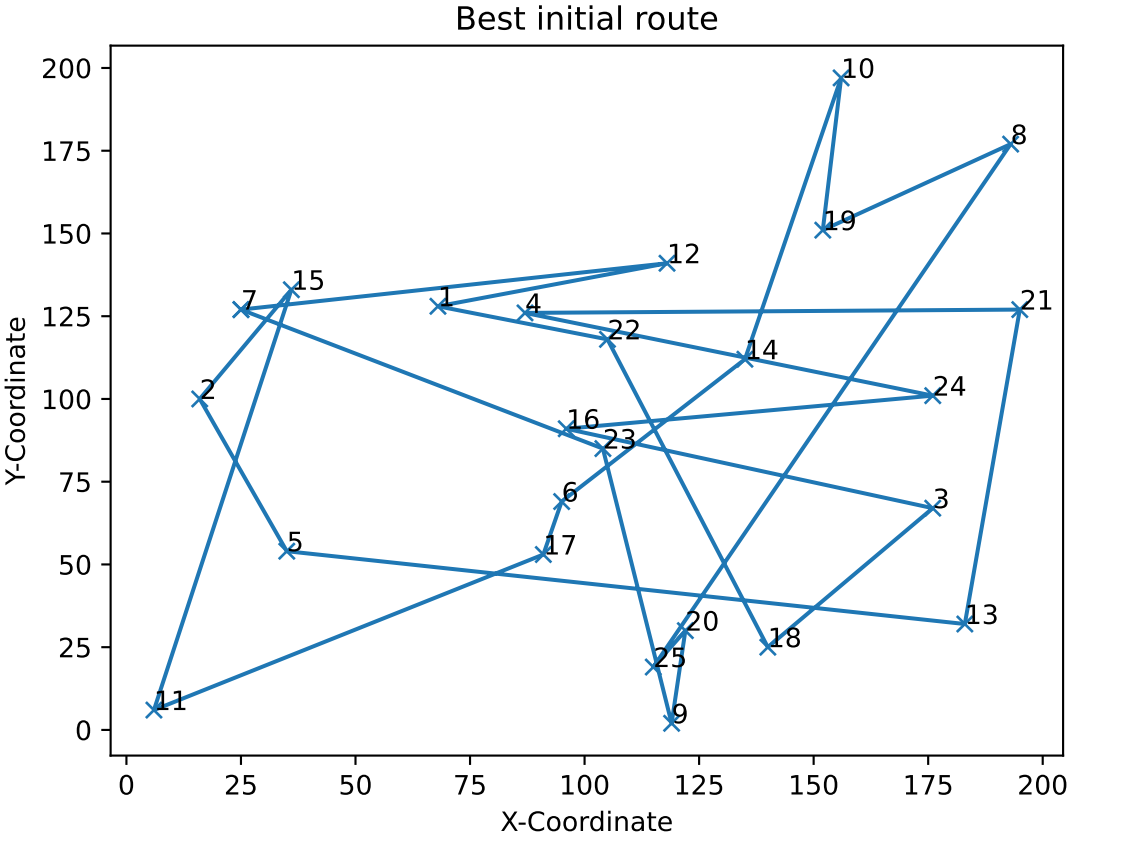
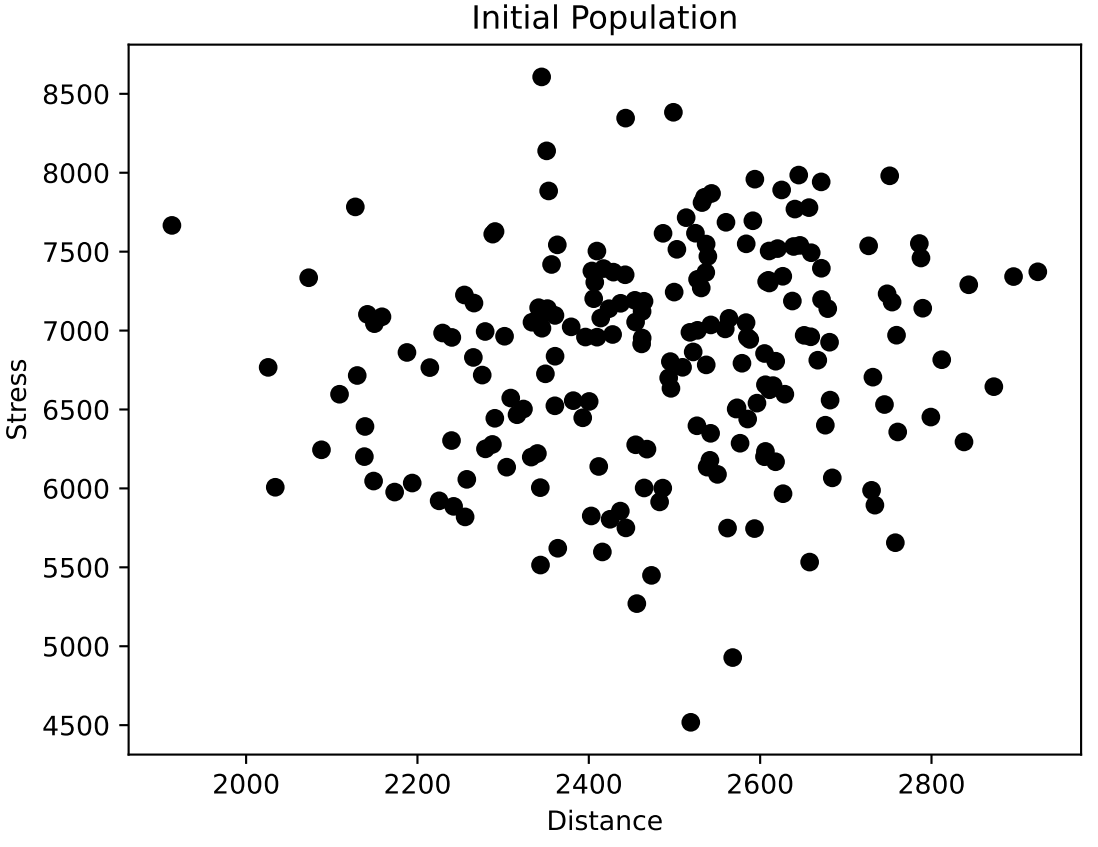
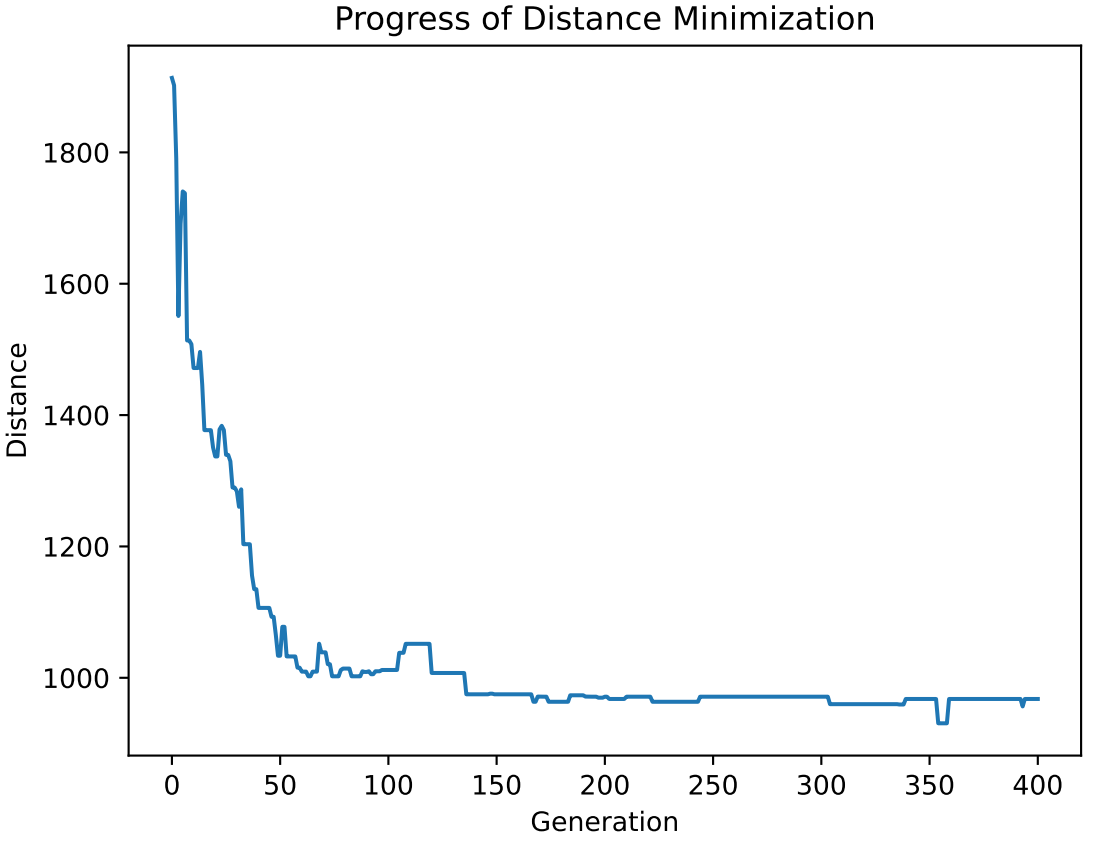
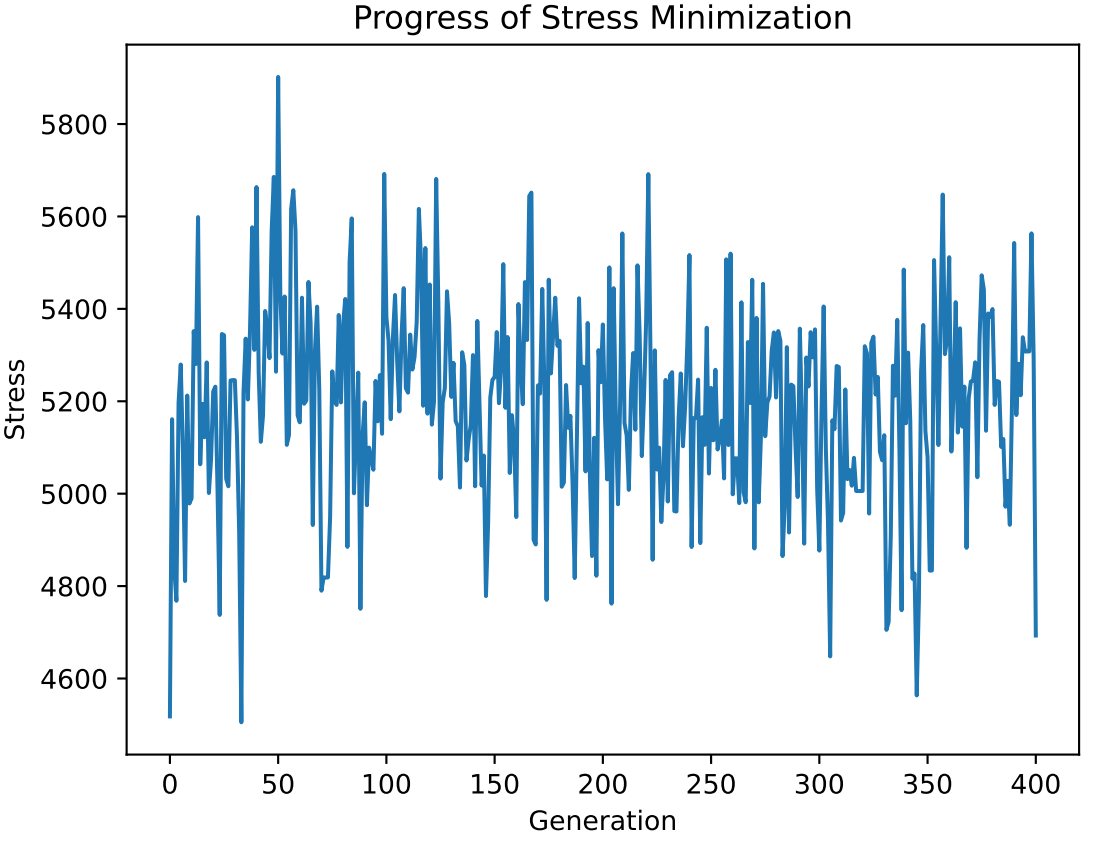
[C1_(68,128)_(T:8), C2_(16,100)_(T:14), C3_(176,67)_(T:7), C4_(87,126)_(T:27), C5_(35,54)_(T:38), C6_(95,69)_(T:1), C7_(25,127)_(T:12), C8_(193,177)_(T:23), C9_(119,2)_(T:4), C10_(156,197)_(T:11), C11_(6,6)_(T:9), C12_(118,141)_(T:6), C13_(183,32)_(T:39), C14_(135,112)_(T:24), C15_(36,133)_(T:9), C16_(96,91)_(T:12), 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)]

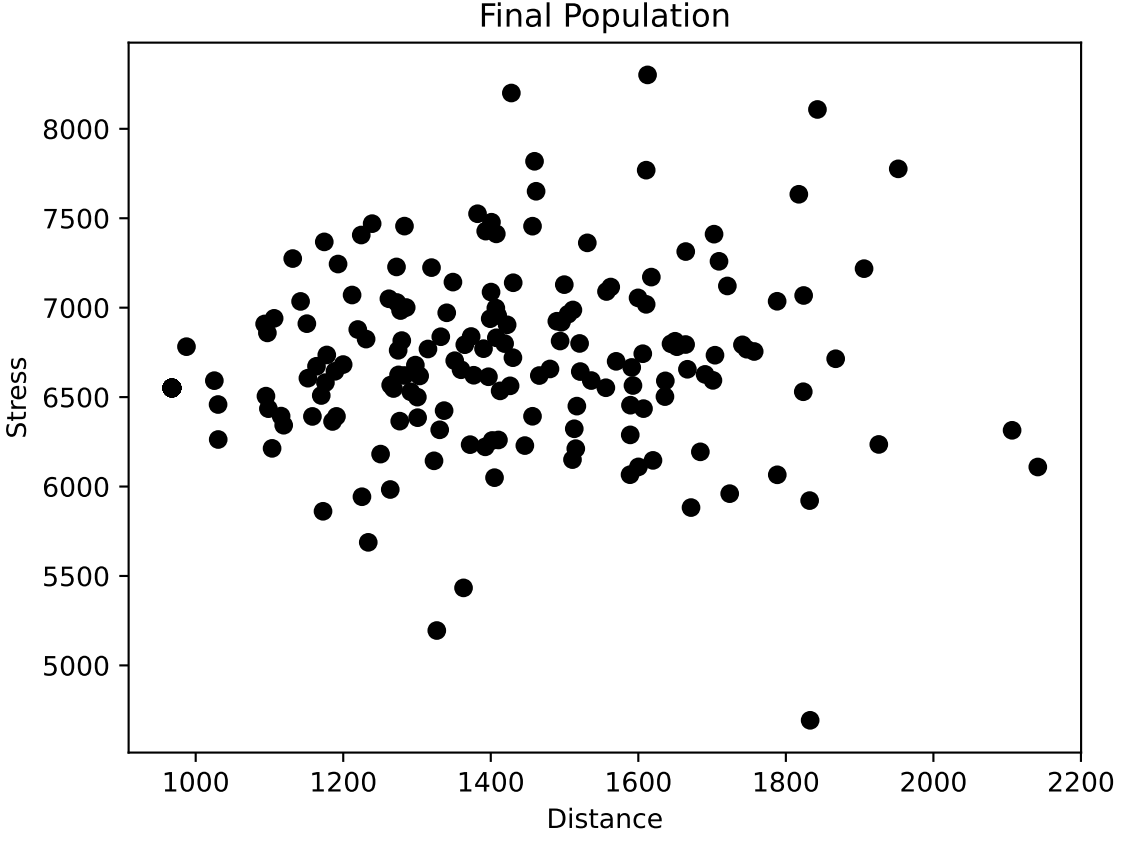

Best initial route
Y-Coordinate
X-Coordinate
0
25
50
75
100
125
150
175
200
10
8
19
12
15
7
1
4
21
22
14
24
2
16
23
6
3
5
17
13
20
18
25
11
9


Initial Population
Stress
Distance
8500
8000
7500
7000
6500
6000
5500
5000
4500
2000
2200
2400
2600
2800

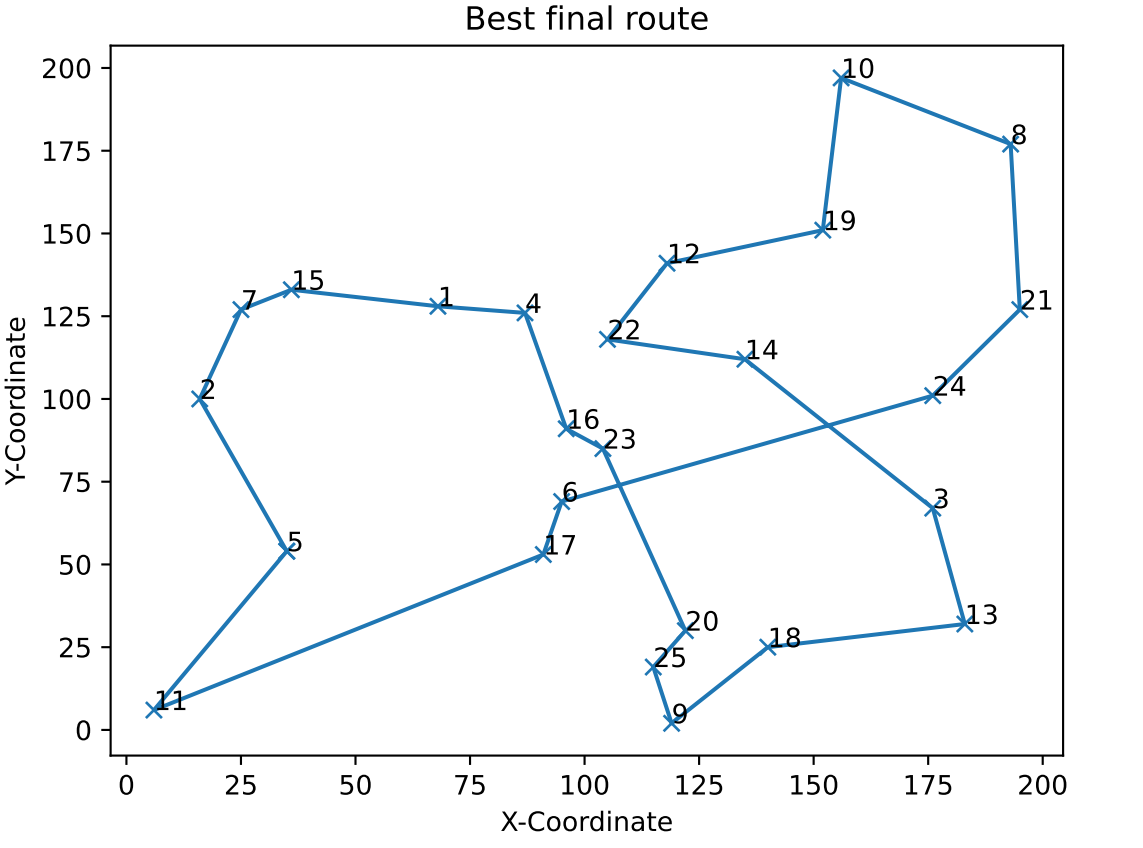

Progress of Distance Minimization
Distance
1800
1600
1400
1200
1000
0
50
100
150
200
250
300
350
400
Generation


Progress of Stress Minimization
Stress
Generation
5800
5600
5400
5200
5000
4800
4600
0
50
100
150
200
250
300
350
400

Initial distance : 1913.396507622131
Initial stress: 7666.4
Initial objective: 1913.396507622131
Final objective: 967.7687625184826
Final distance : 967.7687625184827
Final stress: 6551.0


Final Population
Stress
8000
7500
7000
6500
6000
5500
5000
1000
1200
1400
1600
1800
2000
2200
Distance

[C5_(35,54)_(T:38), C11_(6,6)_(T:9), C17_(91,53)_(T:16), C6_(95,69)_(T:1), C24_(176,101)_(T:12), C21_(195,127)_(T:31), C8_(193,177)_(T:23), C10_(156,197)_(T:11), C19_(152,151)_(T:24), C12_(118,141)_(T:6), C22_(105,118)_(T:3), C14_(135,112)_(T:24), 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), C23_(104,85)_(T:25), C16_(96,91)_(T:12), C4_(87,126)_(T:27), C1_(68,128)_(T:8), C15_(36,133)_(T:9), C7_(25,127)_(T:12), C2_(16,100)_(T:14)]


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