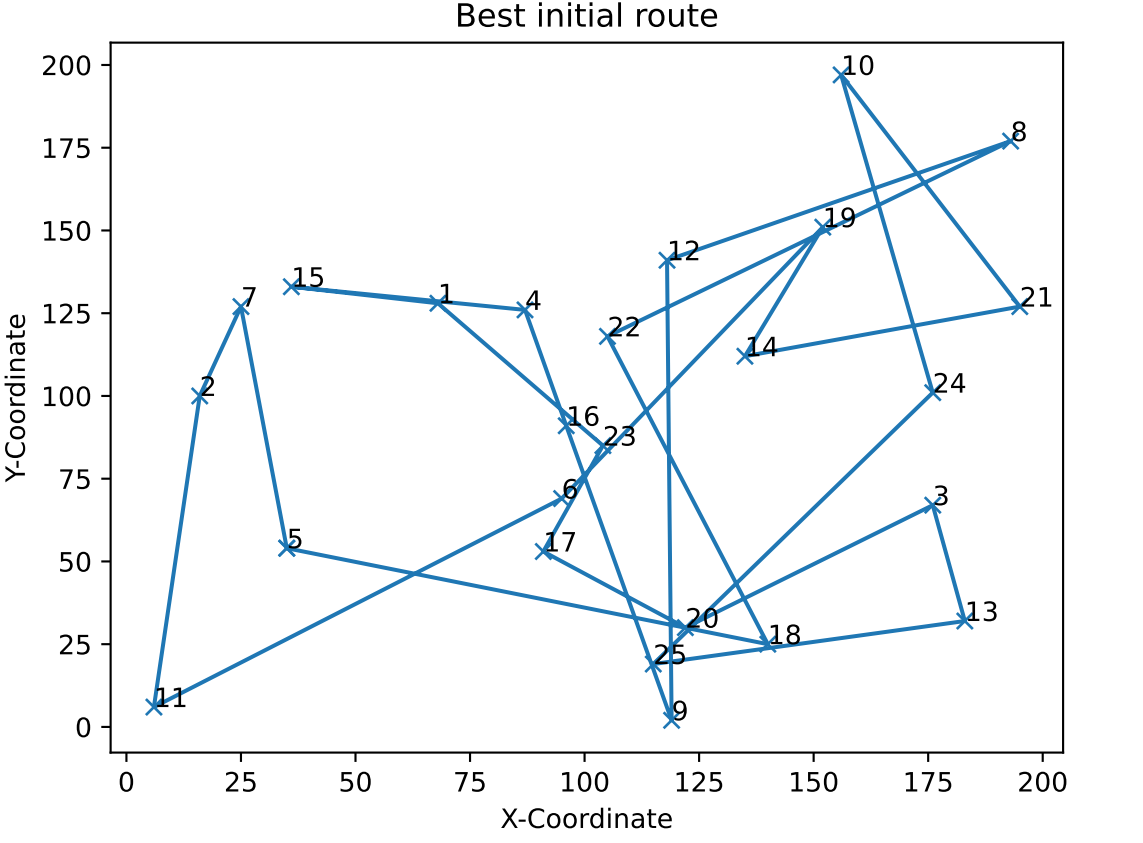
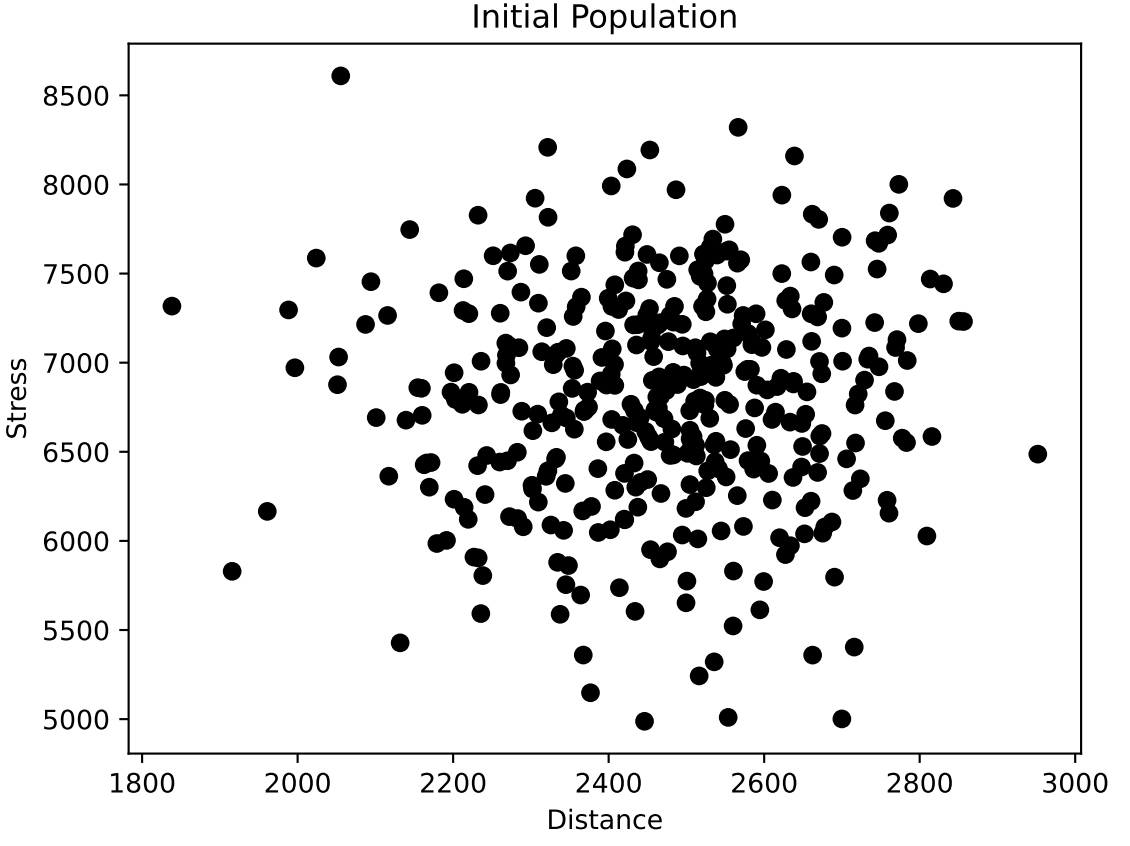
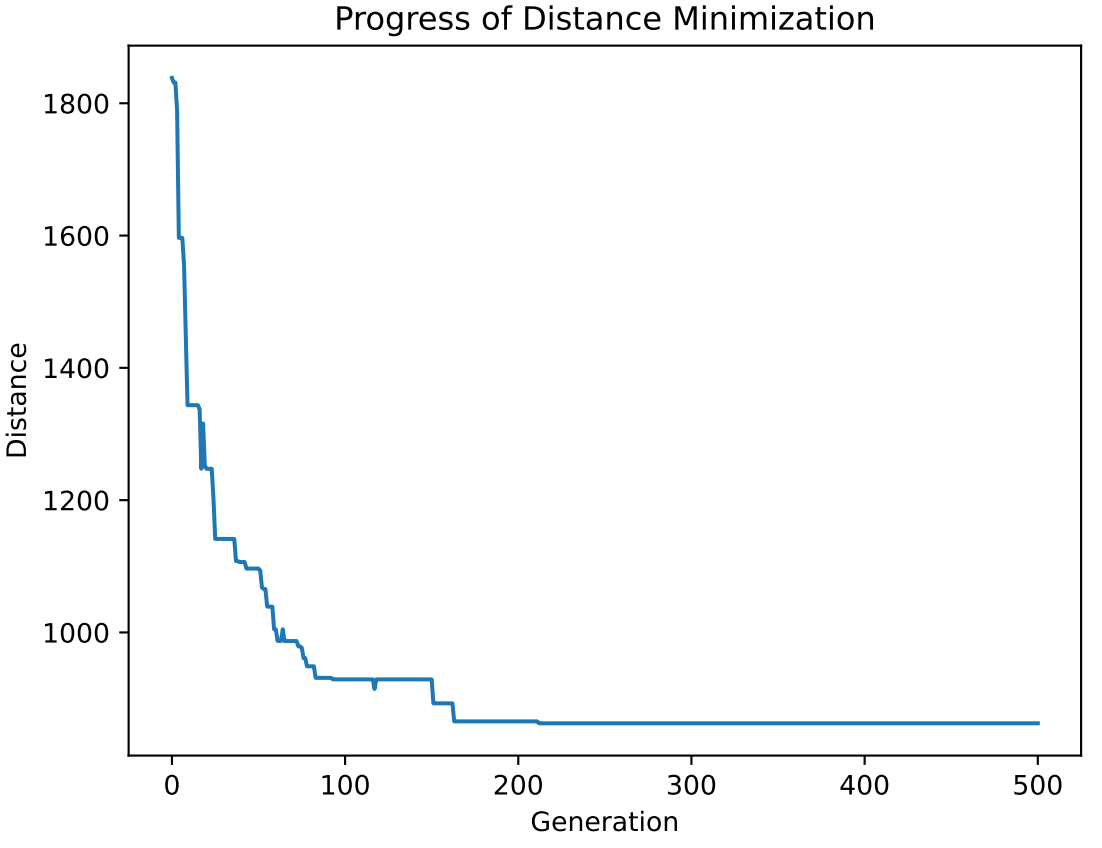
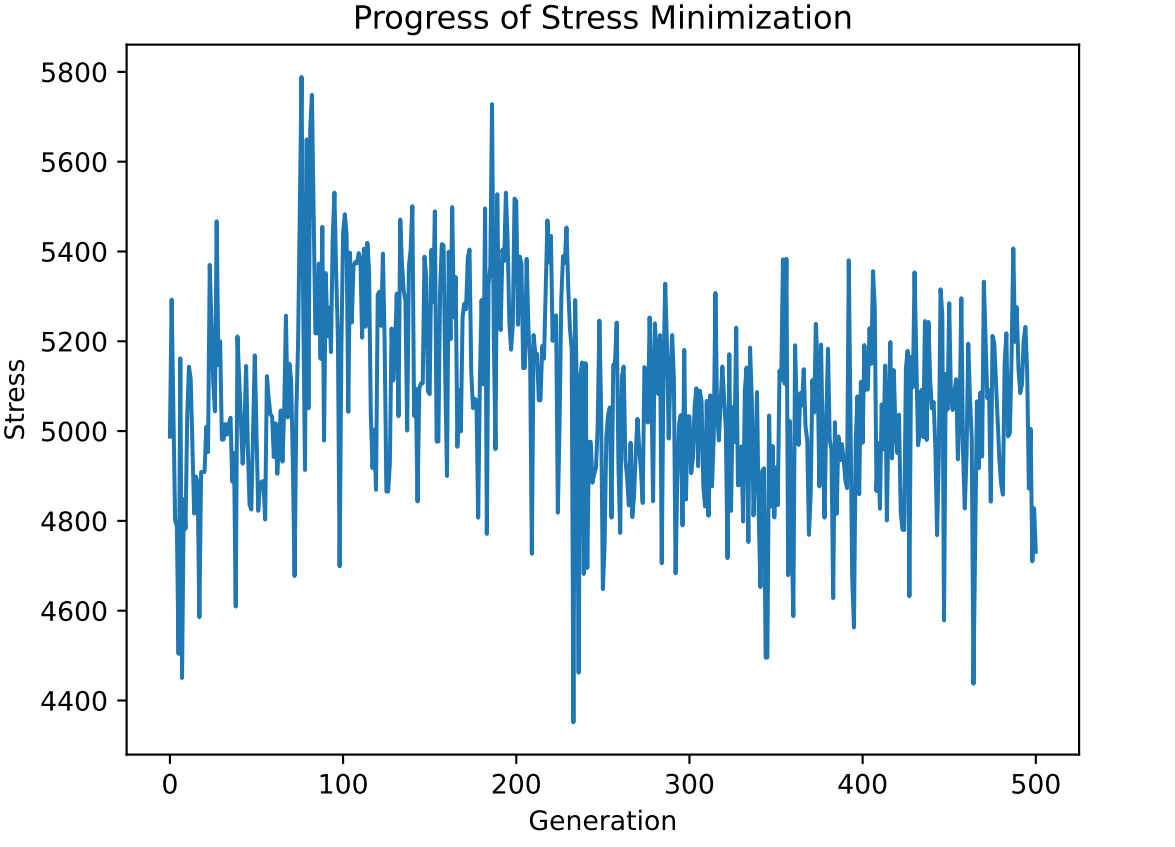
[C1_(68,128)_(T:8), C2_(16,100)_(T:14), C3_(176,67)_(T:7), C4_(87,126)_(T:27), C5_(35,54)_(T:38), C6_(95,69)_(T:1), C7_(25,127)_(T:12), C8_(193,177)_(T:23), C9_(119,2)_(T:4), C10_(156,197)_(T:11), C11_(6,6)_(T:9), C12_(118,141)_(T:6), C13_(183,32)_(T:39), C14_(135,112)_(T:24), C15_(36,133)_(T:9), C16_(96,91)_(T:12),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

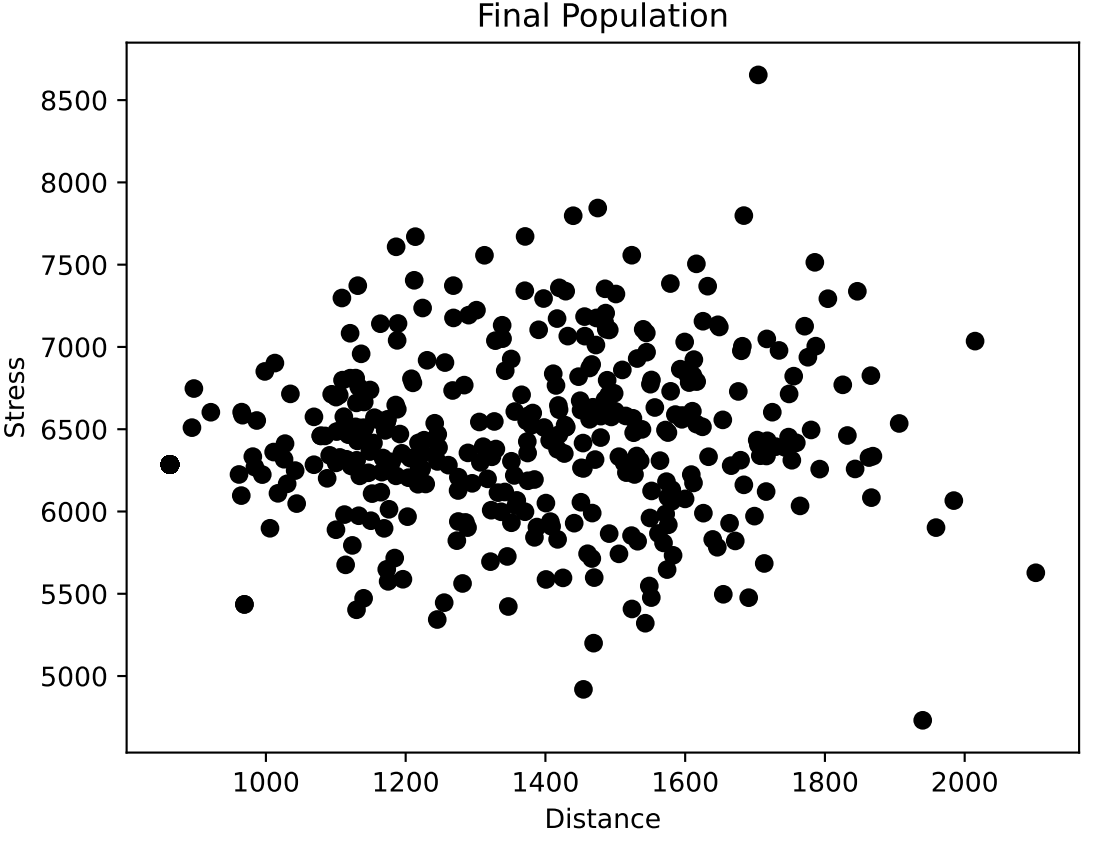

Best initial route
Y-Coordinate
X-Coordinate
0
25
50
75
100
125
150
175
200
10
8
19
12
15
1
4
7
21
22
14
2
24
16
23
6
3
17
5
20
13
18
25
11
9


Initial Population
Stress
Distance
8500
8000
7500
7000
6500
6000
5500
5000
1800
2000
2200
2400
2600
2800
3000

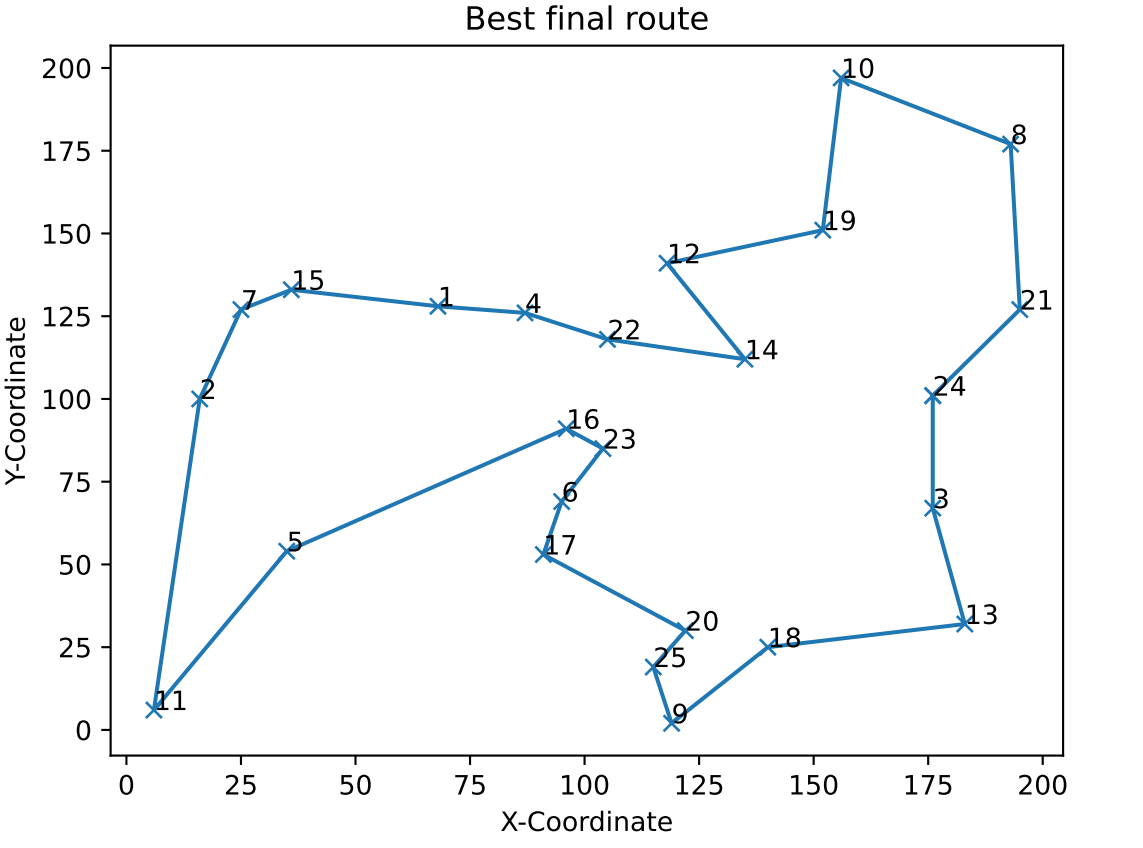

Progress of Distance Minimization
Distance
1800
1600
1400
1200
1000
0
100
200
300
400
500
Generation


Progress of Stress Minimization
Stress
Generation
5800
5600
5400
5200
5000
4800
4600
4400
0
100
200
300
400
500

Initial distance : 1838.3401969484398
Initial stress: 7317.4
Initial objective: 1838.3401969484398
Final objective: 862.6187465869773
Final distance : 862.6187465869773
Final stress: 6285.2


Final Population
Stress
Distance
8500
8000
7500
7000
6500
6000
5500
5000
1000
1200
1400
1600
1800
2000

[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), C14_(135,112)_(T:24), C22_(105,118)_(T:3), 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), C11_(6,6)_(T:9), C5_(35,54)_(T:38), C16_(96,91)_(T:12), C23_(104,85)_(T:25), C6_(95,69)_(T:1), C17_(91,53)_(T:16), C20_(122,30)_(T:15), C25_(115,19)_(T:26), C9_(119,2)_(T:4), C18_(140,25)_(T:37), C13_(183,32)_(T:39), C3_(176,67)_(T:7)]


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