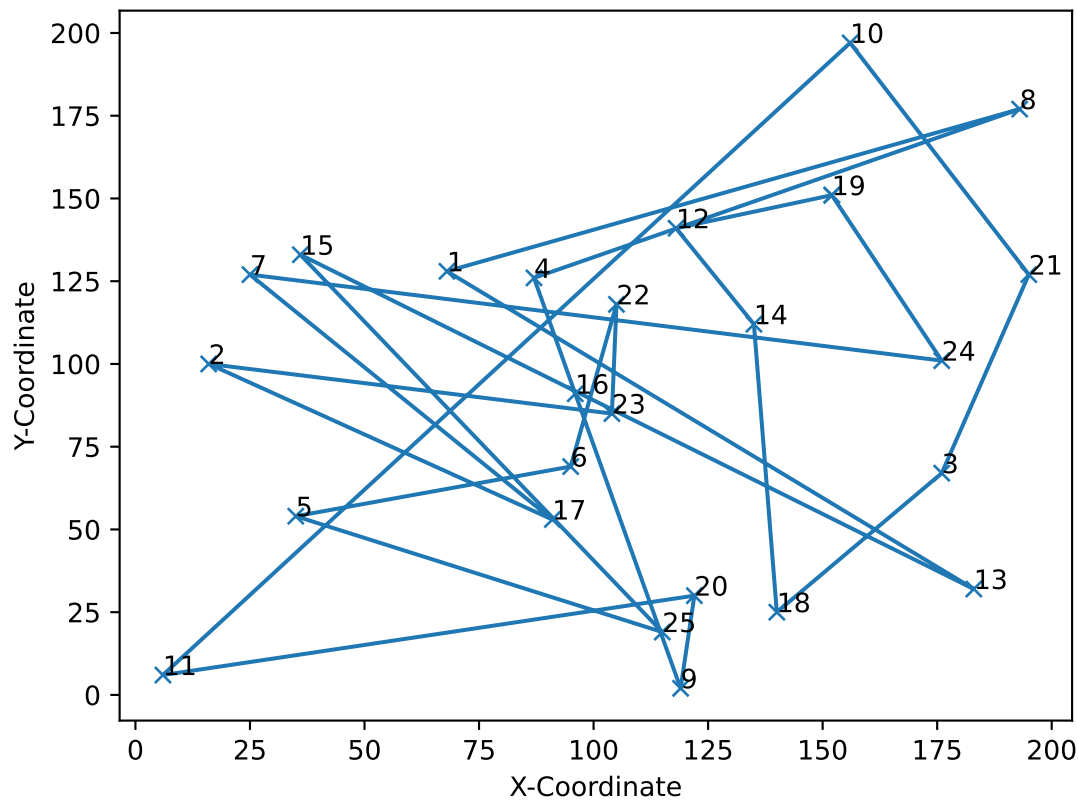
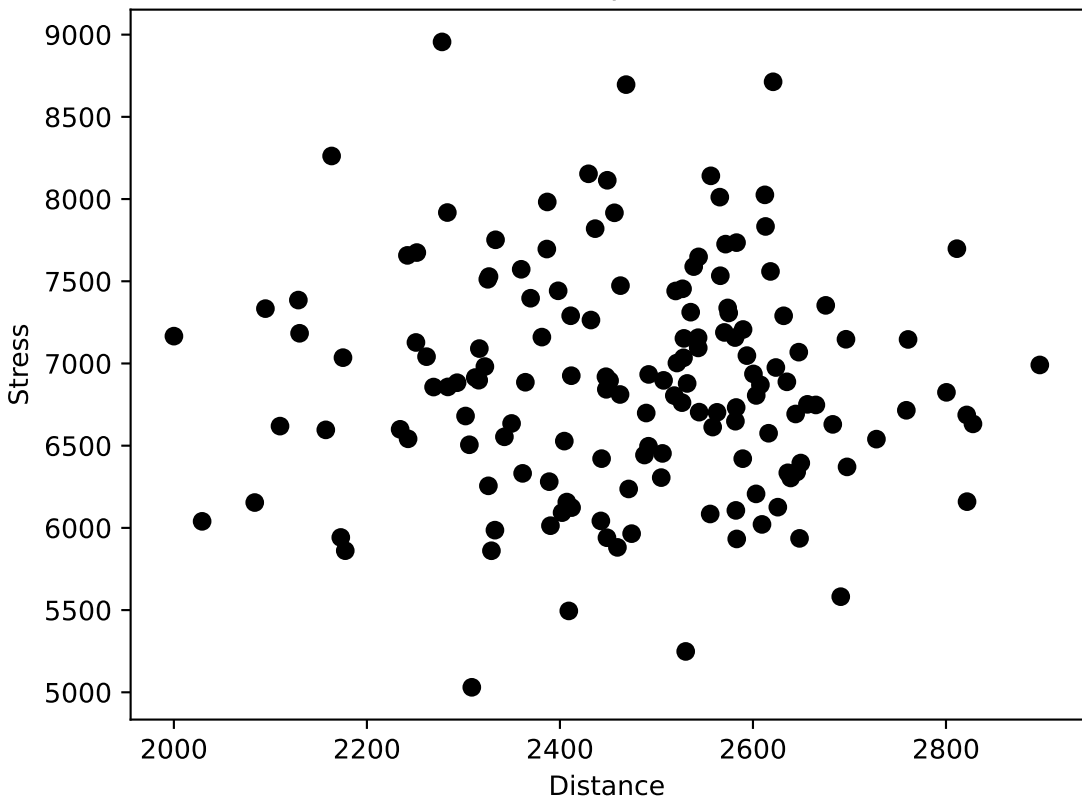


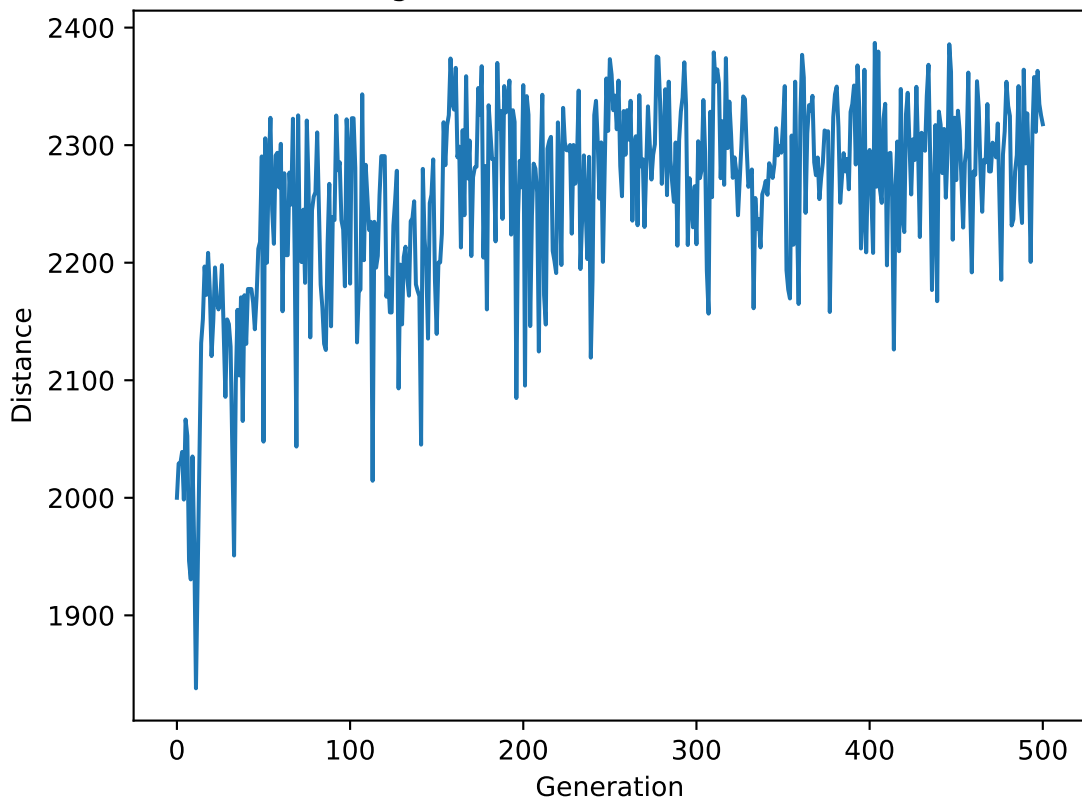
Best initial route



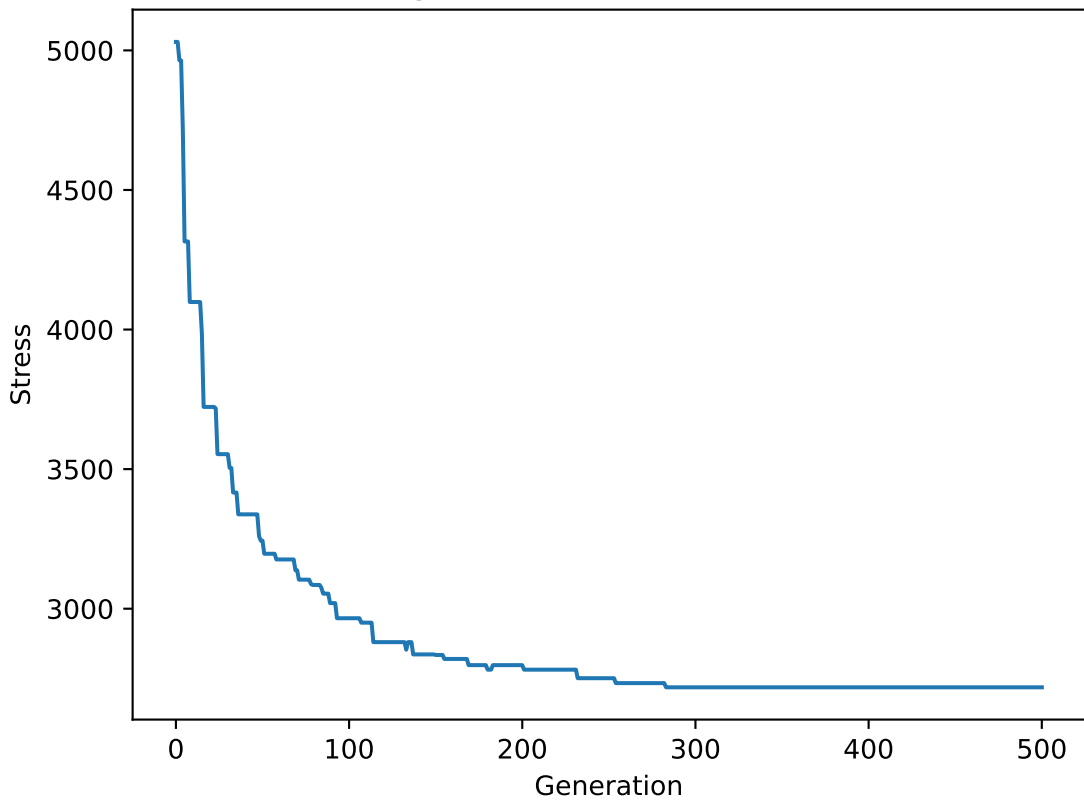
A scatter plot showing the relationship between Distance (x-axis) and Depth (y-axis) for 1000 random points. The x-axis ranges from 2000 to 2800 with major ticks every 200 units. The y-axis ranges from 0 to 1000 with major ticks every 100 units. The points are distributed across the plot area, with a higher density between Distance 2200-2600 and Depth 200-600. There are no discernible trends or patterns in the data distribution.



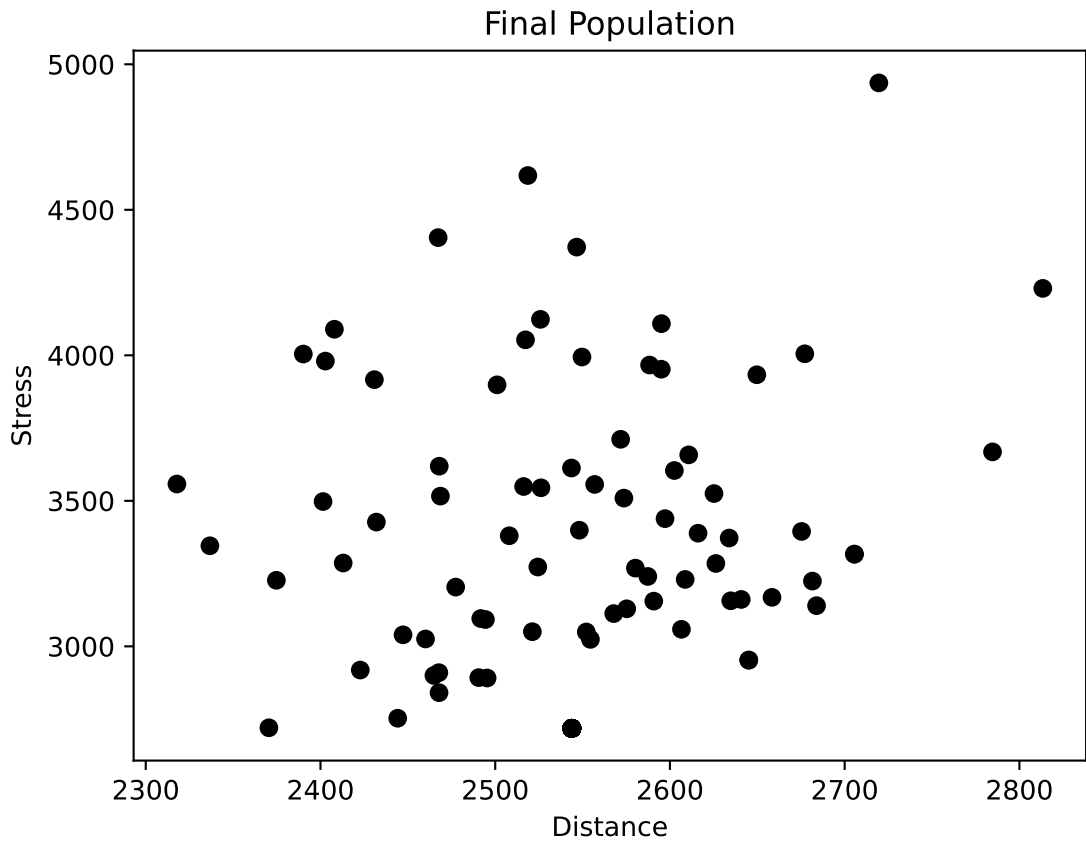
Progress of Distance Minimization



Progress of Stress Minimization



Initial distance : 2308.6818897873836  
Initial stress: 5030.4  
Initial objective: 5030.4  
Final objective: 2718.3999999999996  
Final distance : 2543.8368116956135  
Final stress: 2718.3999999999996



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

Best final route

