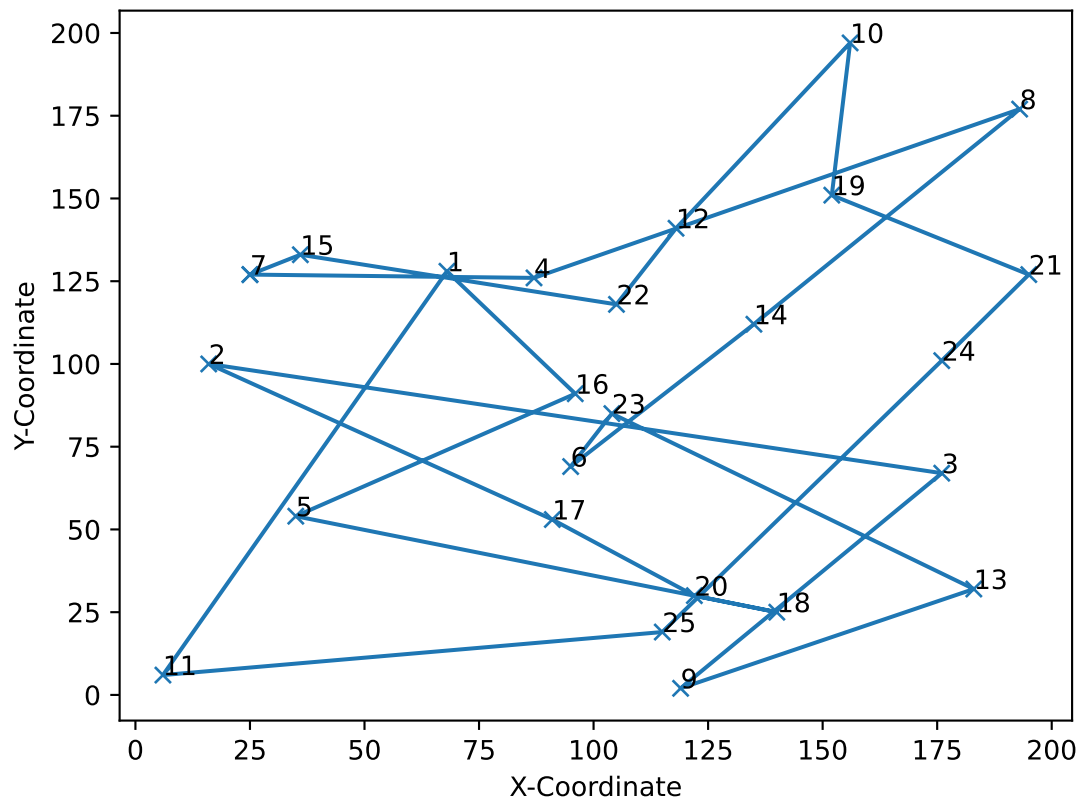
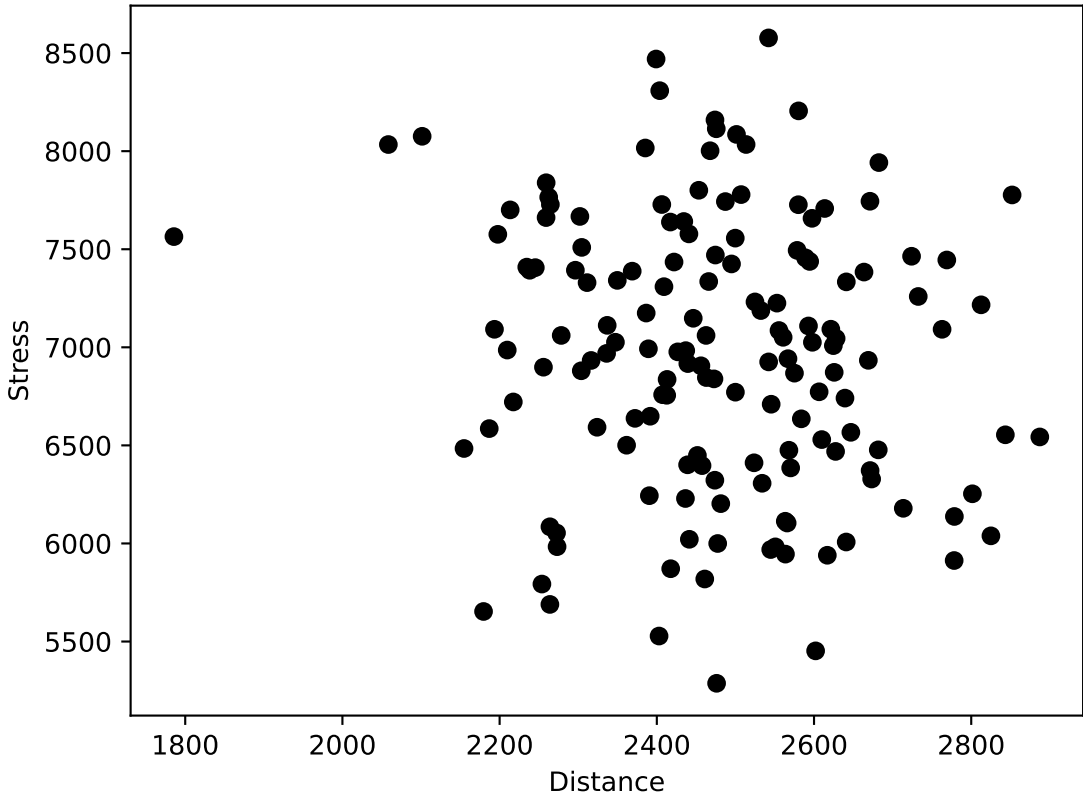


Objective: 1 | popSize: 150 | eliteSize: 10 | mutationRate: 0.01 | generations: 1000

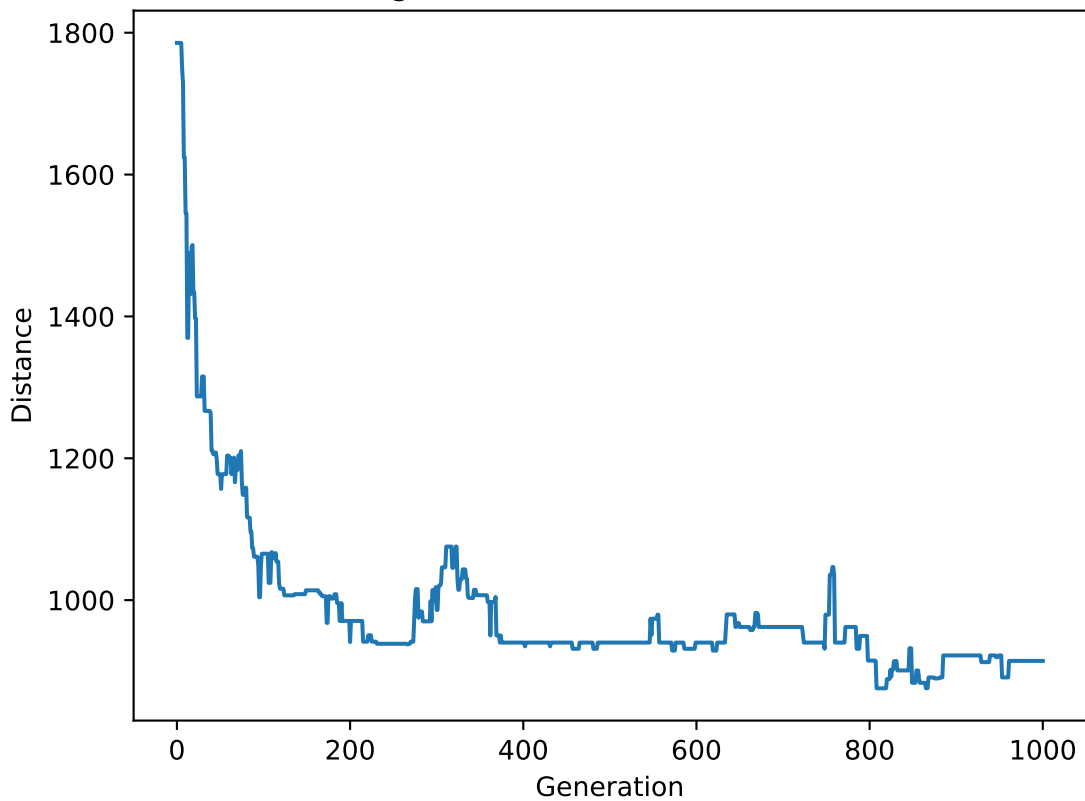
Best initial route



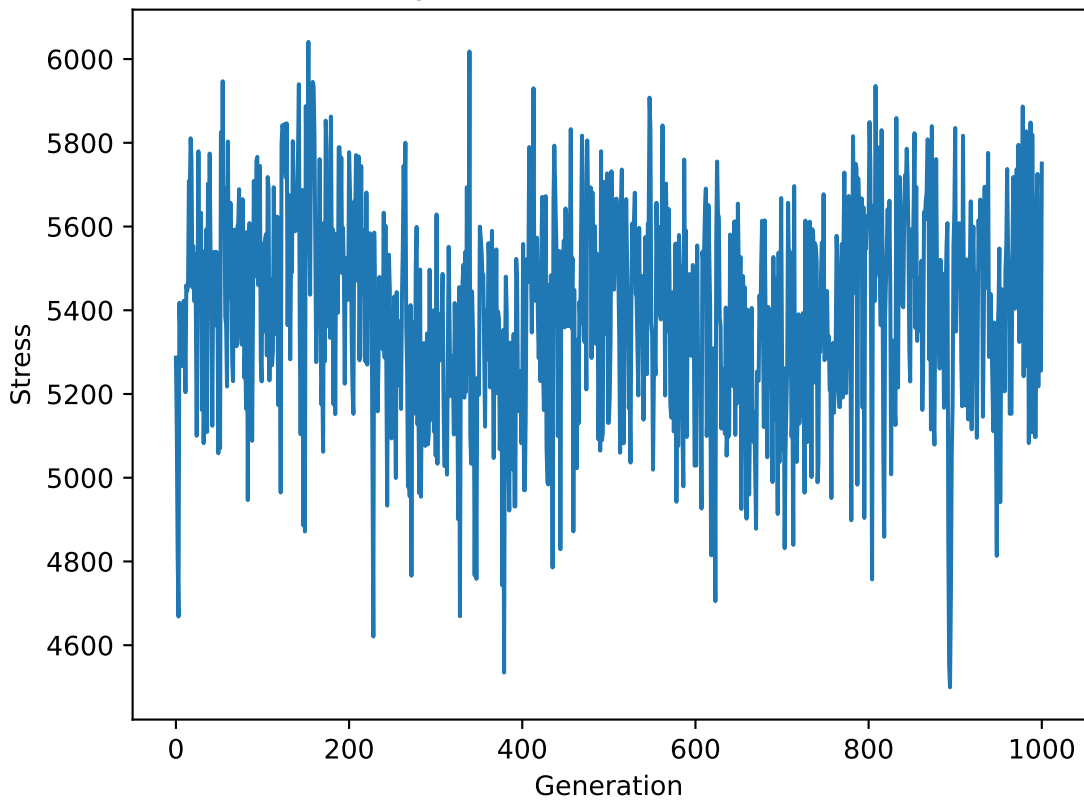
A scatter plot showing the relationship between 'Distance' (x-axis) and an unlabeled variable (y-axis). The x-axis ranges from 1800 to 2800 with major ticks every 200 units. The y-axis ranges from 0 to 100 with major ticks every 20 units. The data points are black circles. There is a general trend where higher 'Distance' values correspond to higher values on the y-axis, though with significant scatter. A notable outlier is located at approximately (1800, 40). Another outlier is at approximately (2450, 10). The data points are most densely clustered between Distance 2200 and 2600, and y-axis values 20 and 60.



Progress of Distance Minimization

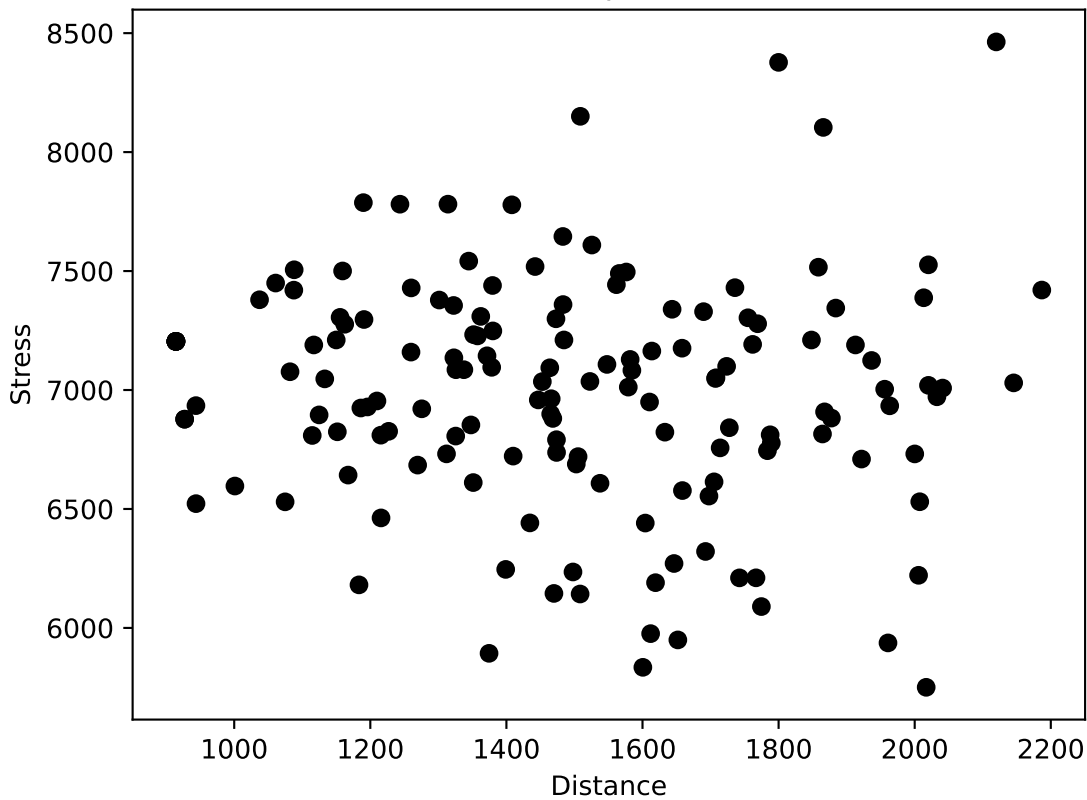


Progress of Stress Minimization



Initial distance : 1785.6219805141443
Initial stress: 7564.400000000001
Initial objective: 1785.6219805141443
Final objective: 914.3273948202755
Final distance : 914.3273948202755
Final stress: 7204.400000000001

Final Population



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

Best final route

