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1 /Users/bmalapat/Documents/GitHub/pythonProject/venv
  /bin/python /Users/bmalapat/Documents/GitHub/
  pythonProject/main.py
2 Ant Colony Optimization - TSP Bays29
3
4 Running ACO with the following parameters:
5
6 population: 15
7 pheromone decay constant: 0.001
8 online pheromone update: True
9 alpha: 1
10 beta: 5
11 Q: 2000
12 max iterations: 500
13
14 Ant Colony Construction in Progress...
15
16 Initial Tour Cost: 23923.28181656728
17 Iterations Completed: 100
18 Iterations Completed: 200
19 Iterations Completed: 300
20 Iterations Completed: 400
21
22 Best Tour Found by ACO for Bays29:
23 [16, 27, 8, 24, 1, 28, 6, 12, 9, 5, 26, 29, 3, 2,
    21, 13, 10, 20, 4, 15, 18, 14, 22, 17, 11, 19, 25,
    7, 23]
24 Cost of Best Tour is 8855.947901260137 found at
    Iteration 323 by an Ant
25 Running ACO with the following parameters:
26
27 population: 15
28 pheromone decay constant: 0.9
29 online pheromone update: True
30 alpha: 1
31 beta: 5
32 Q: 2000
33 max iterations: 500
34
35 Ant Colony Construction in Progress...
36
```

```
37 Initial Tour Cost: 21464.152271242856
38 Iterations Completed: 100
39 Iterations Completed: 200
40 Iterations Completed: 300
41 Iterations Completed: 400
42
43 Best Tour Found by ACO for Bays29:
44 [26, 29, 3, 5, 9, 6, 12, 28, 1, 21, 2, 10, 20, 4,
    13, 16, 24, 8, 27, 23, 7, 25, 19, 15, 18, 14, 22,
    17, 11]
45 Cost of Best Tour is 9036.52489153084 found at
    Iteration 189 by an Ant
46
47 Process finished with exit code 0
48
```