

Figure 1 is a line graph illustrating the evolution of 10 routes (route 1 to route 10) over 120 iterations. The Y-axis represents a value ranging from 0 to 120, and the X-axis represents iterations from 0 to 120. All routes start at various initial values and converge to a value of approximately 90 by iteration 60. After iteration 60, the routes diverge significantly, showing different trends:

- route 1 (blue) drops sharply to 0 at iteration 40 and then returns to 90 by iteration 60.
- route 2 (orange) drops to approximately 18 at iteration 95 and then returns to 90 by iteration 100.
- route 3 (green) fluctuates around 90 after iteration 60.
- route 4 (red) rises to approximately 110 at iteration 75 and then returns to 90 by iteration 80.
- route 5 (purple) fluctuates around 70 after iteration 60.
- route 6 (brown) fluctuates around 40 after iteration 60.
- route 7 (pink) fluctuates around 90 after iteration 60.
- route 8 (grey) fluctuates around 100 after iteration 60.
- route 9 (yellow-green) fluctuates around 100 after iteration 60.
- route 10 (cyan) fluctuates around 100 after iteration 60.

**Total distance: 1123**