/usr/local/bin/python3.9 /Users/yashdave/Desktop/CSC311/A3/A3.py

============ Question 1 (b) ============

Neural Classifier Score: 1.0

Neural Classifier Score: 0.712

============ Question 1 (d) ============

Neural Classifier Score Difference: 0.0

============ Question 2 (r) ============

The length of the path is 15

============ Question 2 (s) ============

The length of path 1 is 15

The length of path 2 is 17

The length of path 3 is 15

The length of path 4 is 17

The length of path 5 is 13

The length of path 6 is 21

The length of path 7 is 13

The length of path 8 is 13

The length of path 9 is 13

============ Question 2 (t) ============

The length of path 1 is 13

The length of path 2 is 13

The length of path 3 is 13

The length of path 4 is 13

The length of path 5 is 13

The length of path 6 is 13

The length of path 7 is 13

The length of path 8 is 13

The length of path 9 is 13

============ Question 3 (a) ============

Test score for 3 clusters train: -14885.962431128333

Test score for 3 clusters test: -15005.402507884974

============ Question 3 (b) ============

Test score for 3 clusters train: -5.070784828872725

Test score for 3 clusters test: -5.096255430529465

============ Question 3 (c) ============

Test score for 3 clusters train: -4.830692576590552

Test score for 3 clusters test: -4.90215848878368

============ Question 3 (e) ============

I don't know

============ Question 3 (h) ============

Test score for 10 clusters train 50,000: 2229.2594293374805

Test score for 10 clusters test 50,000: 2209.3535023232484

============ Question 3 (i) ============

Test score for 10 clusters train 500: 2364.6303172710172

Test score for 10 clusters test 500: -27436.064075910755

============ Question 3 (j) ============

Test score for 10 clusters train 10: 4693.208779861045

Test score for 10 clusters test 10: -30273991.05962495

Process finished with exit code 0