/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