Activity 1.

Create a table with the times you get for the different sizes of the problem using LevenshteinDistanceTest.java. What is the complexity of the algorithm? Do the empirical results make sense.

The complexity of the Levenshtein Distance is O(m\*n)

Below are the results of the LevenshteinDistanceTimes as I couldnt solve LevenshteinDistanceTest

n = 10

Size Time LD

100 5 96

200 6 192

400 16 379

800 23 763

1600 184 1516

3200 412 3028

6400 1443 6064

12800 6538 12087

25600 42601 24171

n = 100

Size Time LD

100 19 95

200 23 191

400 46 381

800 169 762

1600 575 1515

3200 2207 3022

6400 8629 6045

12800 37107 12082

25600 177295 24159

n = 1000

Size Time LD

100 63 98

200 126 193

400 375 384

800 1355 755

1600 5372 1520

3200 20762 3031

6400 82158 6047

12800 330589 12110

25600 1608852 24155