k-Means Clustering Homework CS 4499/5599

For this homework you will work through a k-Means clustering example.

For the data below, show the centroid values and which instances are closest to each centroid after centroid calculation for two iterations of k-means using Manhattan distance.

By 2 iterations we mean 2 centroid changes after the initial centroids.

Assume k = 2 and that the first two instances are the initial centroids.

Pattern	x	у
а	0.9	0.8
b	0.2	0.2
С	0.7	0.6
d	-0.1	-0.6
e	0.5	0.5