

## CS181 ASSIGNMENT 3

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### Problem 4.

a. (a)

k	Mean squared distance
1	1.97
2	1.80
3	1.81
4	1.77
5	1.52
6	1.37
7	1.42
8	1.25
9	1.31
10	1.26

- (a) (b) It is difficult to tell, because the mean squared values always seem to be improving as the number of clusters increases (which should be the case). However, the improvements seem to level off somewhat at 8 clusters, so that is about as reasonable a guess as we can make just from the above data.