Algorithm:
1st: Random n points (n=number of clusters) -> cluster centroids
and Go through all training examples.
Calculate distance, assign each to the closest dister
Calculate distance, assign each to the closest cluster 3rd: hove centroids to mean location of points closer to each
$1170 \cdot C \cdot 1 \cdot 0.00$
Non-separated clusters:  Non-separated clusters:  Short
Distortion
$J(c^{(i)},, c^{(m)}, \mu_1,, \mu_K) = \frac{1}{m} \sum_{i=1}^{m}   x^{(i)} - \mu_c^{(i)}  ^2 \qquad (straight line)$ location location of training of cluster controid sample
It may fall into local optima with bad initialization
Try multiple times. Pick min (J())
Choosing K belbow method:
K

