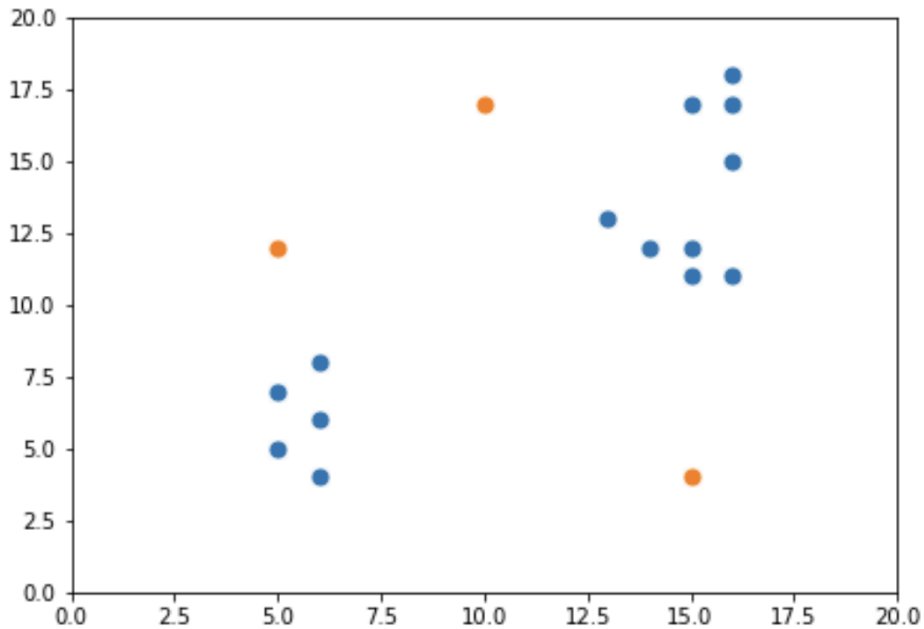


## CPE 232 Data Models

### HW 7: Clustering

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Given data points and initial centroids (in orange) below, use the k-means clustering algorithm discussed in the lecture to compute new centroids after 3 iterations. Show your work in each step.



#### Data points:

[ 5, 7], [15, 12], [16, 18], [ 6, 6], [16, 11], [15, 11], [ 6, 4], [13, 13], [16, 17], [ 5, 5], [15, 17],  
[16, 17], [ 6, 8], [14, 12], [16, 15]

#### Initial centroids:

[ 5, 12], [15, 4], [10, 17]