

Week 10 Exercises

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October 27, 2015

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Execute the BDMMO Algorithm with $p = 3$ on the following 1-dimensional, Euclidean data:

1, 45, 80, 24, 56, 71, 17, 40, 66, 32, 48, 96, 9, 41, 75, 11, 58, 93, 28, 39, 77

The clustering algorithm is k -means with $k = 3$. Only the centroid of a cluster, along with its count, is needed to represent a cluster.

```
x <- c(1, 45, 80, 24, 56, 71, 17,  
      40, 66, 32, 48, 96, 9, 41,  
      75, 11, 58, 93, 28, 39, 77)
```