Week 8 - Check Your Understanding

1. In k-means clustering, one needs to specify the number of cluster before the calculation process.

* \*a. True
  1. False

1. In k-means clustering, the final result of clustering does not depend on the initial selection of centroids.
   1. True \*b. False
2. In k-means clustering, the calculation process stops when there are not change in the positions of the centroids.

* \*a. True
  1. False

1. The result of k-means clustering should not depend on the selection of the distance measurement
   1. True

* \*b. False

1. Like k-means clustering, in hierarchical clustering, one needs to specify the number of clusters before the calculation process.
   1. True

* \*b. False

1. In hierarchical clustering, the distance between two clusters should always be the distance between the centroids of the two clusters.
   1. True \*b. False
2. In hierarchical clustering, the choice of linkage will impact the way observations are clustered

* \*a. True
  1. False

1. K-means clustering is sensitive to outliers

* \*a. True
  1. False

1. Clustering is supervised learning method
   1. True \*b. False