

# Warm-up on Clustering

1. Decision trees be used for performing clustering.
  - a. True
  - b. False
2. Write a pseudo-code for the  $k$ -means clustering algorithm.
3. What are the advantages and limitations of  $k$ -means clustering?
4. What is the difference between agglomerative hierarchical clustering and divisive hierarchical clustering?
5. Write a pseudo-code for hierarchical clustering (either agglomerative or divisive)
6. Compare the DBSCAN algorithm to the  $k$ -means clustering algorithm.
7. How is Fuzzy clustering different from  $k$ -means clustering?
8. We have other internal measures to evaluate  $k$ -Means clustering:
  - a. Cluster Cohesion
  - b. Cluster Separation

How do these measures compare with the silhouette coefficient?

