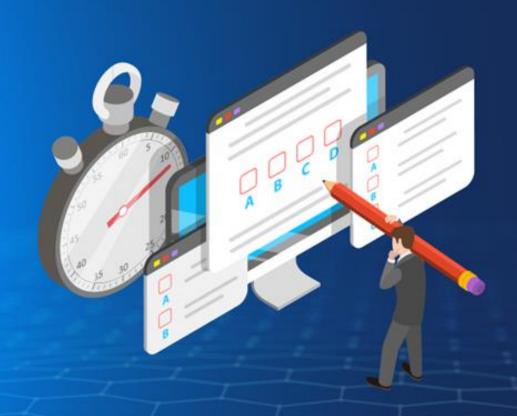
# DATA AND ARTIFICIAL INTELLIGENCE



**Knowledge Check** 



Which linkage hierarchical clustering produces chaining amongst clusters?

- A. Single Linkage
- B. Average Linkage
- C. Complete Linkage
- D. Ward Linkage





Which linkage hierarchical clustering produces chaining amongst clusters?

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The correct answer is **A.** 

Single linkage sometimes produces chaining amongst clusters because the smallest distance between pairs is the only value taken into consideration.



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## Which of the following is required by K-means clustering?

- A. Defined distance metric
- B. Number of clusters
- C. Initial guess as to cluster centroids
- D. All of the mentioned





2

Which of the following is required by K-means clustering?

- A. Defined distance metric
- B. Number of clusters
- C. Initial guess as to cluster centroids
- D. All of the mentioned



The correct answers are **D**.

K-means clustering follows a partitioning approach. The partitioning clustering approach is a clustering method that needs one to classify observations, make an initial guess about the cluster centroids, define the distance metric and input data about the number of clusters.

