Exercise 12: Which clusters are closest?

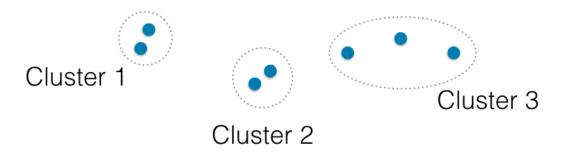
In the video, you learned that the linkage method defines how the distance between clusters is measured. Let's compare now two different linkage methods:

- In **complete** linkage, the distance between clusters is the distance between the *furthest* points of the clusters.
- In **single** linkage, the distance between clusters is the distance between the *closest* points of the clusters.

Consider the three clusters in the following diagram, and answer the question below.

From the course *Transition to Data Science*. Buy the entire course for just \$10 for many more exercises and helpful video lectures.

Out [2]:



Question:

Which of the following statements are true?

A. In single linkage, cluster 3 is the closest to cluster 2.

B. In complete linkage, cluster 1 is the closest to cluster 2.

Answer: both A and B are true.

In []: