Single Link vs. Complete Link in Hierarchical Clustering

- ☐ Single link (nearest neighbor)
 - The similarity between two clusters is the similarity between their most similar (nearest neighbor) members
 - Local similarity-based: Emphasizing more on close regions, ignoring the overall structure of the cluster
 - Capable of clustering non-elliptical shaped group of objects
 - Sensitive to noise and outliers
- Complete link (diameter)
 - ☐ The similarity between two clusters is the similarity between their most dissimilar members
 - ☐ Merge two clusters to form one with the smallest diameter
 - Nonlocal in behavior, obtaining compact shaped clusters
 - Sensitive to outliers



