

## Quiz 9 - Regrade Submission 1

Emorie Beck

November 8, 2018

2. At any given step, the single linkage approach and the centroid method will be based on the same number of distances.

**Original answer:** False

**Explanation:** This is true because in both cases, rows are iteratively deleted from the distance or dissimilarity matrix as observations are joined together and distances between clusters will reflect the minimum distance between clusters.

3. Ward's method attempts to keep distances between cases and cluster centroids as small as possible.

**Original answer:** False

**Explanation:** This is true because Ward's Method attempts to minimize the squared sum of deviations between cases and cluster centroids.