- 4.)
 (a) The fusion on the complete linkage dendogram will occur higher on the tree, blc it will occur at the value on the vertical axis which is the maximum of the pairwise dissimilarities between the clusters {1,2,3} al {4,5}, rather than the minimum (which single linkage would do).
 - (b.) They will occur at the same height. This is blc there is only 1 dissimilarly between 253 and 263, thus the max and min dissimilarity will both equal that I dissimilarity, and thus 2 fusions will occur at the same height.
- 5.) In Figure 10.14:
 - (i) Left Panel: I would expect a clusters, with the differences in cluster assignment being driven mostly by the number of socks purchased, and less by number of computers purchased. For instance, the 2 clusters might be: cluster 1: { Black, Orange, Red, Pink } > This is blc # socks varies greatly, and # computers varies very little.
 - (ii) Center Panel: I would expect the 2 clusters obtained to be arrived practically entirely by scaled number of computers purchased namely:

 Cluster 1: {Black, Oronge, Blue, Teal } This is ble scaled # computers

 Cluster 1: {Black, Oronge, Blue, Teal } varies much more than

 Cluster 2: { Green, Purple, Red, Pink } varies much more than
 - (iii) Right Panel: I would expect the 2 clusters to be determined

 (iii) Right Panel: I would expect the 2 clusters to be determined

 practically entirely by dollars spent purchasing computers; i.e.

 Cluster 1: { Black, Orange, Blue, Feal } This is blc the computers Cluster 2: { Green, Purple, Red, Pink} purchased varies much, much more than \$ socks purchased.