**Program 16.6:**For the family lung function data ([Lung Function.xlsPreview the document](https://sit.instructure.com/courses/29149/files/4590469/download?verifier=P5znqxTr85LRdRyG2juqycOxDi5mr0I6mojEB4hO&wrap=1)), perform a hierarchical cluster analysis using the variables FEV1 and FVC for mothers, fathers, and oldest children. Compare the distribution of area residence in the resulting groups.

**Program 16.8:**Repeat Problem 16.6, using the K-means method for K = 4. Compare the results with the four clusters produced in Problem 16.6.