HOMEWORK #1

* Perform student’s t-test on a breast cancer dataset to identify genes differently expressed between good prognosis (> 5 years) and bad prognosis (<= 5 years) with p-values less than 0.05 and compute FDRs using Benjamini–Hochberg method
* Plot in the same figure P-values and FDRs in an ascending order using two different colors
* The data will be posted in the class website
* Hint: there are some software packages written in Python that contain the BH method

HOMEWORK #2

* Implement the K-means method using Python and test the code on the Old Faithful data
* Plot the result in each iteration
* The data is available at:
* http://www.stat.cmu.edu/~larry/all-of-statistics/ =data/faithful.dat