Deadline: March 30, 2017

K-nearest-neighbors

Implement k-nearest-neighbors algorithm. Use data from iris folder. File 'train.txt' contains examples from training set. File 'test.txt' contains examples from test set. Algorithm should use the data from training set to classify each example from the test set. Use euclidean distance metric. K number should be chosen by user. For each example from test set print: label of a class predicted by the algorithm and true class from data set. Compute accuracy (percentage of correctly classified examples). Provide functionality to manually input(i.e. from keyboard) test example for classification.

Optional: Plot percentage of correctly classified test examples versus K.