Math 5366 Homework 36

1. Split the sklearn `digits` data set into 70% training data and 30% test data. Obtain the confusion matrix and classification accuracy on the test set using the following learning algorithms, and also evaluate the accuracy of each algorithm using 10-fold cross validation.

   (a) Decision trees
   (b) Nearest neighbors
   (c) Naive Bayes
   (d) Support vector machines
   (e) Bagging
   (f) Boosting
   (g) Random Forest