3. Did you tune any methods? If so, (a) what process(es) did you use to evaluate and compare models and to select your final model (i.e., I want to see an answer like to the previous question, but relating to how TUNING was done), and (b) for each method list all parameter values that were considered (e.g., "For "Blasting" I use a grid of values with A=(1, 2, 3, ..., 60) and B=(0.00317, sqrt(3.14159)). For "Blooming" I used combinations of (z, )=(0.1, 3), (0.5, 6), and (1.1, 12) ). I expect maybe 1-2 sentences for each method tuned.

a)

KNN analysis has tuning parameters. I iterated over from 1 to 40 to get the k parameter which returns the smallest misclassification error rate.

NaiveBayes has a tuning parameter. I tried both usekernel = T and usekernerl = F to get the parameter that returns the smallest misclassification error rate.

Classification Trees has a tuning parameter. I tried cp = 0, cp = cp.min and cp = cp.1se and select the value which returns the smallest misclassification error rate.

RandomForest has a tuning parameter. I repeated 5 times to get parameters which returns the smallest misclassification error rate.

b)

knn(): I tuned k = 1...40

NaiveBayes(): I tuned usekernel = T, F

rpart(): I tuned cp=0. cp.min, cp.1se

randomForest(): mtry = 1:6, nodesize = c(1, 5, 10, 15, 20)