library(class)

data(iris, package="datasets")

x <- sample(c(1:150),120)

train <- iris[x,1:4]

test <- iris[-x,1:4]

train.cl <- iris[x,5]

test.cl <- iris[-x,5]

iris.knn <- knn(train, test, train.cl, k = 1)

table(test.cl,iris.knn)

iris.knn3 <- knn(train, test, train.cl, k = 3)

table(test.cl,iris.knn3)

iris.knn5 <- knn(train, test, train.cl, k = 5)

table(test.cl,iris.knn5)

iris.knn11 <- knn(train, test, train.cl, k = 11)

table(test.cl,iris.knn11)

iris.knn15 <- knn(train, test, train.cl, k = 15)

table(test.cl,iris.knn15)