Exercício KNN

Introdrução ao Reconhecimento de Padrões

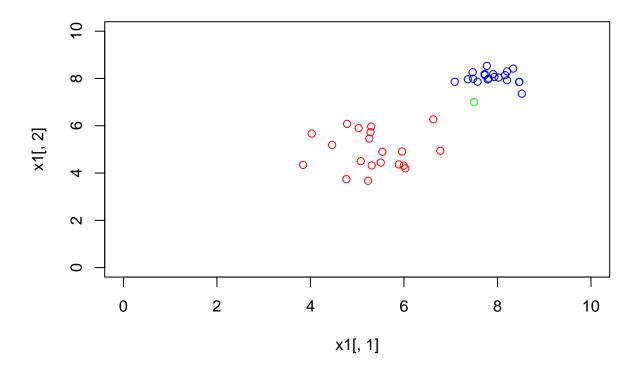
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```
rm(list=ls())
# Duas classes gaussianas.

x1<-replicate(2,rnorm(20,mean=5,sd=0.8))
x2<-replicate(2,rnorm(20,mean=8,sd=0.4))
y1 = array(1,c(20,1))
y2 = y1*(-1)
plot(x1[,1],x1[,2],col="red",xlim=c(0,10),ylim=c(0,10))
points(x2[,1],x2[,2],col="blue")

X = rbind(x1,x2)
Y = rbind(y1,y2)

xt = c(7.5,7)
points(xt[1],xt[2],col="green")</pre>
```



```
k=5
source("myknnR.R")
result = myknnR(X,Y,xt,k)
```