testtable<-data.table(c("D","E","F","G","H","I"),c(0,0,0,0,0))

microbenchmark(for(i in 1:nrow(diamonds)){

if(diamonds$Color[i]=="D"){

testtable[1,2]=diamonds$Price[i]+testtable[1,2]}

else if(diamonds$Color[i]=="E"){

testtable[2,2]=diamonds$Price[i]+testtable[2,2]}

else if(diamonds$Color[i]=="F"){

testtable[3,2]=diamonds$Price[i]+testtable[3,2]}

else if(diamonds$Color[i]=="G"){

testtable[4,2]=diamonds$Price[i]+testtable[4,2]}

else if(diamonds$Color[i]=="H"){

testtable[5,2]=diamonds$Price[i]+testtable[5,2]}

else if(diamonds$Color[i]=="I"){

testtable[6,2]=diamonds$Price[i]+testtable[6,2]}

})