x="ms9yew";#neptun kód

z=charToRaw(iconv(x, "latin1", "UTF-8"))

for (i in 1:6) v=paste("0x",z,sep="")

e=strtoi(v)

ax=e[1];ay=e[2];az=e[3];av=e[4];ss=sum(strtoi(v))

cat("ax=",ax,"\n")

cat("ay=",ay,"\n")

cat("az=",az,"\n")

cat("av=",av,"\n")

cat("ss=",ss,"\n")

ar=c( "FB","AAPL","AMZN","GOOG","NFLX","TSLA")

ai=ss-6\*floor(ss/6)

ev=2020-(ss-20\*floor(ss/20))

cat("ev=",ev,"\n")

cat("reszveny=",ar[ai],"\n")

#4es feladat -------------------------------

library(stabledist)

set.seed(ss)

alpha=1+ax/(ax+av)

stabilis <- rstable(1200, alpha=alpha, beta = 0, gamma = ay, delta = 0,0);stabilis

filtered = stabilis[stabilis>-1000 & stabilis<1000];filtered

hist(filtered, main="generált cauchy eloszláss", freq=F) #a piros a tényleges

plot(density(stabilis))

points(x=sd(stabilis), y = sd(stabilis),col="blue",pch=16)

#statisztikai adatok beépítettel

summary(stabilis)

varhato = mean(stabilis);varhato

szoras = sd(stabilis);szoras

median = median(stabilis);median

#modus

Mode <- function(x) {

ux <- unique(x)

ux[which.max(tabulate(match(x, ux)))]

}

Mode(stabilis)