

```

> # MP-SPI 2015 ukol 1
> # zdrojovy kod
> # autori:
> #   lorenpe2 - 107 - Lorenc Petr
> #   liutoole - 107 - Liutova Oleksandra
> #####
> `+<-` <- `+` # operator +=
> `-<-` <- `-` # operator -=
> #####
>
> K=nchar('Petr') # |jmeno|, K = 4
> L=nchar('Lorenc') # |prijmeni|, L = 6
> #####
> # 1.1
> # http://en.wikipedia.org/wiki/Exponential\_distribution#Generating\_exponential\_variates
> n=K*20
> u=runif(n, min=0, max=1) # Generuje n n nahodnych hodnot z UNIF(0,1)
> x=-log(1-u)/L # Exp rozdeleni s parametrem L

> # 1.2
> hist(u,freq=FALSE)
> hist(x,breaks=5*K,freq=FALSE) # Histogram naÅaich hodnot
> # Normal Distribution
> NA

[1] NA

> NA

[1] NA

> NA

[1] NA

> # 1.3 OpsÃano ze zadÃani, graf emp. exp. fce
> plot(ecdf(x), verticals=TRUE, do.points = FALSE,
+      lty=1,
+      col="black",
+      main="DistribuÃ funkce",
+      ylab="TODO4",
+      xlab="TODO5")

```