Legea	Denumirea	Valoarea medie şi dispersia
$\mathcal{U}(N)$	`unid`	$E(X)=\frac{N+1}{2}$, $Var(X)=\frac{N^2-1}{12}$
$\mathcal{B}(n,p)$	`bino`	$E(X)=np$, $Var(X)=np(1-p)$
$\mathcal{H}(n,M,K)$	`hyge`	$E(X)=n\frac{K}{M}$, $Var(X)=n\frac{K}{M}\frac{M-K}{M}\frac{M-n}{M-1}$
$\mathcal{P}o(\lambda)$	`poiss`	$E(X)=\lambda$, $Var(X)=\lambda$
$\mathcal{BN}(r,p)$	`nbin`	$E(X)=\frac{r(1-p)}{p}$, $Var(X)=\frac{r(1-p)}{p^2}$
$\mathcal{G}e(p)$	`geo`	$E(X)=\frac{1-p}{p}$, $Var(X)=\frac{1-p}{p^2}$
$\mathcal{U}(a,b)$	`unif`	$E(X)=\frac{a+b}{2}$, $Var(X)=\frac{(b-a)^2}{12}$
$\mathcal{N}(\mu,\sigma)$	`norm`	$E(X)=\mu$, $Var(X)=\sigma^2$
$\mathcal{LN}(\mu,\sigma)$	`logn`	$E(X)=\mathrm{e}^{\mu+\frac{\sigma^2}{2}}$, $Var(X)=\mathrm{e}^{2\mu+2\sigma^2}-\mathrm{e}^{2\mu+\sigma^2}$
$\mathcal{G}a(a,b)$	`gam`	$E(X)=ab$, $Var(X)=ab^2$
$\mathcal{E}xp(\mu)$	`exp`	$E(X)=\mu$, $Var(X)=\mu^2$
$\mathcal{B}eta(a,b)$	`beta`	$E(X)=\frac{a}{a+b}$, $Var(X)=\frac{ab}{(a+b+1)(a+b)^2}$
$\mathcal{W}(a,b)$	`weib`	$E(X)=a^{-\frac{1}{b}}\Gamma\left(1+\frac{1}{b}\right)$, $Var(X)=a^{-\frac{2}{b}}\left[\Gamma\left(1+\frac{2}{b}\right)-\Gamma^2\left(1+\frac{1}{b}\right)\right]$
$\mathcal{R}(b)$	`rayl`	$E(X)=b\sqrt{\frac{\pi}{2}}$, $Var(X)=\frac{4-\pi}{2}b^2$
$\mathcal{T}(n)$	`t`	$E(X)=0$, $Var(X)=\frac{n}{n-2}$, $n>2$
$\mathcal{T}nc(n,\delta)$	`nct`	$E(X)=\frac{\delta\sqrt{\frac{n}{2}}\Gamma\left(\frac{n-1}{2}\right)}{\Gamma\left(\frac{n}{2}\right)}$, $Var(X)=\frac{n\left(1+\delta^2\right)}{n-2}-\frac{n\delta^2}{2}\left[\frac{\Gamma\left(\frac{n-1}{2}\right)}{\Gamma\left(\frac{n}{2}\right)}\right]^2$, $n>2$
$\chi^2(n)$	`chi2`	$E(X)=n$, $Var(X)=2n$
$\chi^2(n,\delta)$	`ncx2`	$E(X)=n+\delta$, $Var(X)=2(n+2\delta)$
$\mathcal{F}(m,n)$	`f`	$E(X)=\frac{n}{n-2},\ n>2$, $Var(X)=\frac{2n^2(m+n-2)}{m(n-2)^2(n-4)},\ n>4$
$\mathcal{F}nc(m,n,\delta)$	`ncf`	$E(X)=\frac{n(m+\delta)}{m(n-2)},\ n>2$, $Var(X)=2\left(\frac{n}{m}\right)^2\frac{(m+\delta)^2+(m+2\delta)(n-2)}{(n-2)^2(n-4)},\ n>4$

Tabelul 2.1: Tabelul valorilor medii şi dispersiilor