

StatsPoissonCDF

Examples

```
Function AllPermutations(num)
Variable num

Variable i,nf=factorial(num)
Make/O/N=(num) wave0=p+1,waveA,waveB=p

Print wave0
for(i=0;i<nf;i+=1)
    waveA=wave0
    if(statsPermute(waveA,waveB,1)==0)
        break
    endif
    print waveA
endfor
end
```

Executing AllPermutations(3) prints:

```
wave0[0]= {1,2,3}
waveA[0]= {1,3,2}
waveA[0]= {2,1,3}
waveA[0]= {2,3,1}
waveA[0]= {3,1,2}
waveA[0]= {3,2,1}
```

See Also

Chapter III-12, **Statistics** for a function and operation overview.

StatsPoissonCDF

StatsPoissonCDF(*x*, *λ*)

The StatsPoissonCDF function returns the Poisson cumulative distribution function

$$F(x; \lambda) = \sum_{i=0}^x \frac{\exp(-\lambda) \lambda^i}{i!}, \quad x = 0, 1, 2, \dots$$

See Also

Chapter III-12, **Statistics** for a function and operation overview; the **StatsPoissonPDF** and **StatsInvPoissonCDF** functions.

StatsPoissonPDF

StatsPoissonPDF(*x*, *λ*)

The StatsPoissonPDF function returns the Poisson probability distribution function

$$f(x; \lambda) = \frac{\exp(-\lambda) \lambda^x}{x!}, \quad x = 0, 1, 2, \dots$$

where λ is the shape parameter.

See Also

Chapter III-12, **Statistics** for a function and operation overview; the **StatsPoissonCDF** and **StatsInvPoissonCDF** functions.

StatsPowerCDF

StatsPowerCDF(*x*, *b*, *c*)

The StatsPowerCDF function returns the Power Function cumulative distribution function

$$F(x; b, c) = \left(\frac{x}{b} \right)^c$$

where the scale parameter b and the shape parameter c satisfy $b, c > 0$ and $b \geq x \geq 0$.