
Subject: Re: Help needed!!

Posted by [penteado](#) on Fri, 16 Apr 2010 16:33:34 GMT

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On Apr 16, 1:18 pm, bala murugan <bala2...@gmail.com> wrote:

> My aim is to do the following,
>
> To write an IDL routine that takes as input the mean of a Poisson
> distribution (fLambda = a floating point number >= 0.0) and a number
> of realizations (N), and generates N samples from the Poisson
> distribution with mean fLambda. The output samples should be provided
> as a vector (list) of integers (each >= 0). I will also want to plot
> a histogram of the samples (IDL probably has a built-in histogramming
> routine).
>
> My subroutine/program will look something like this...
>
> piSamples = PoissonDist(fLambda, N)
> piSamples = vector of N integer samples returned by the routine
> fLambda = mean of the Poisson distribution
> N = number of samples to generate
>
> This routine will need to loop n = 1..N Each time through the loop,
> it will need to call RANDOMU to get a random number between 0.0 and
> 1.0. It will then need to call IMSL_POISSONCDF (probably repeatedly)
> to determine which integer in the Poisson distribution corresponds to
> the random number gotten from RANDOMU. This integer is then placed in
> the output vector, etc.
>
> I am not using IMSL_POISSONCDF. Rather I am calculating the poisson
> probability myself.
>
> Can you please help me with this?

Better now, but you still did not say what the problem is. One problem
that is obvious is the line

```
if (x EQ r) THEN a[i]=j
```

since neither a or i exist at that point. And that condition is
probably never going to be true.
