Subject: Re: Help needed!!

Posted by Gray on Fri, 16 Apr 2010 19:13:34 GMT

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On Apr 16, 2:06 pm, bala murugan <bala2...@gmail.com> wrote:
> On Apr 16, 11:48 am, "R.G. Stockwell" <noem...@please.com> wrote:
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>
   "bala murugan" <bala2...@gmail.com> wrote in message
   news:29ee4ec6-4803-44fd-aa5c-00fc0d2c9376@u21g2000yqc.google groups.com...
>>> Hi people,
>>> I am new to IDL. This is my first program in IDL. Can somebody point
>>> out the errors in my code. I have been struggling to get it right.
>>> CODE:
>>> FUNCTION poissondist,fLambda,N
>>> r = RANDOMU(SEED,1)
>>> FOR j=1,N,1 DO BEGIN
>
>> arrays are indexed from 0... N-1
>>> x=poisson(j,fLambda)
>>> if (x EQ r) THEN a[i]=j
>> floating point numbers may never be exactly equal.
  Use a "if abs(x-r) It 0.0001 then" type of statement
>> as others have pointed out, 'a' and 'i' do not exist here.
>> i have no idea what you think "i" should be.
>> For a you will need to allocate an array inside that function, like so:
>> FUNCTION poissondist,fLambda,N
>> a = fltarr(N)
>> r = RANDOMU(SEED,1)
>> FOR j=0,N-1 DO BEGIN
>> .... etc....
>>> ENDFOR
>>> RETURN,a
>>> END
>>> In the above code, the function "poisson" was written by me. It is as
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>>> follows,
>>> CODE:
>>> FUNCTION poisson,a,b
>> x = (b^a)/(exp(b)^*factorial(a))
>>> RETURN,x
>>> END
>> in the future, you may want to make sure a and b are passed in
>> before executing that statement. for example:
>> if n_elements(a) eq 0 then message, 'missing a'
>> if n_elements(b) eq 0 then message, 'missing b'
>> cheers,
>> bob
>> PS bonus info.
>> Make sure that the code for
>> FUNCTION poissondist,fLambda,N
>> is in a file called poissondist.pro, and that it is in your IDL path.
>
>> Also, make sure your function:
>> FUNCTION poisson,a,b
>> is in a file called poisson.pro, and that it is in your IDL path.
  Guys, thanks a lot for the info.
>
  Sorry, I made a mistake while copying the code and pasting it:
  CODE:
 FUNCTION poissondist,fLambda,N
 FOR i=1,N,1 DO BEGIN
       a = FLTARR(N)
>
       r = RANDOMU(SEED,1)
>
       FOR j=1,N,1 DO BEGIN
            x=poisson(j,fLambda)
>
            if abs(x-r) It 0.0001 THEN a[i]=i
>
       ENDFOR
> ENDFOR
> RETURN,a
> END
> I also came across another method. But am not sure if it does the same
> thing as mentioned in the summary that I made.
```

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>
> The thing that I came across is as follows,
> FUNCTION poissondist, fLambda, N
> data = RANDOMU(SEED,N,POISSON=fLambda)
> RETURN,data
> END
>
> Can you please clarify if the second method does the same thing as the
> first?
> Thanks,
```

The second method does what you're looking for, the first may or may not but is overly complicated.