On Apr 16, 1:13 pm, Gray <graylitheco...@gmail.com> wrote:
> On Apr 16, 2:06 pm, bala murugan <bala2...@gmail.com> wrote:
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>> On Apr 16, 11:48 am, "R.G. Stockwell" <noem...@please.com> wrote:
>
>>> "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) lt 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
>>>> 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) lt 0.0001 THEN a[i]=j
>>      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.
>
>> 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,
>> B
>
> The second method does what you're looking for, the first may or may
> not but is overly complicated.

Thanks Gray....

But I would be glad if I can make the first method work....

If you have any suggestions of doing the first method in a different
way, please let me know...

By the way, thanks a lot!!!