
Subject: Re: IDL function randperm?

Posted by [K. Bowman](#) on Wed, 20 Aug 2003 13:00:21 GMT

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In article <Amara.Graps-2008031259130001@amaramac.ifs.rm.cnr.it>, Amara.Graps@ifs.rm.cnr.it (Amara Graps) wrote:

> Greetings!
>
> I wonder if any of you have an IDL function that gives a
> random permutation of an array index, or know of a
> straightforward way to compute it?
>
> In Matlab such a function is called "randperm(n)"
> where n is the length of the array.
>
> For example, if one gives the integer 8, then it returns
> a length 8 integer array with values 0 to 7, randomly permuted.
>
> It is not as simple as it sounds, since the indices are unique.
> I tried variations of randomly SHIFT'g indices from INDGEN()
> with a random number generator, and the values were not
> 'jumbled' satisfactorily.
>
> Thanks in advance for any answer!
> Amara

If I understand your question, you can just generate n uniform random variables and then sort the result.

```
IDL> x = LINDGEN(10)
IDL> y = RANDOMU(dseed, 10)
IDL> print, x
      0      1      2      3      4      5
6      7
      8      9
IDL> print, y
      0.138249  0.0700486  0.310873  0.610514  0.332400
0.135694  0.975024
      0.370555  0.763737  0.0268037
IDL> z = x[sort(y)]
IDL> print, z
      9      1      5      0      2      4
7      3
      8      6
```

Ken Bowman
