
Subject: Re: Counting the lengths of continuous numbers in an array

Posted by [andy.mcneel](#) on Fri, 08 Aug 2008 21:41:02 GMT

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On Aug 8, 4:28 pm, mankoff <mank...@gmail.com> wrote:

> On Aug 8, 5:05 pm, andy.mcn...@gmail.com wrote:

>

>> Howdy folks.

>

>> Say I have the following array: [1, 2, 3, 4, 7, 8, 11, 13, 14, 17,

>> 18, 19]

>

>> How would I tell IDL to go through this array and return the array [4,
>> 2, 1, 2, 3].....the lengths of the continuous groups of numbers in the
>> array?

>

>> Thanks!

>> -Andy McNeel

>

> I'm not sure how robust this is for other arrays, but I can get your

> 2nd array from your first like so, assuming the 1st array is "a". I

> didn't test boundary cases (runlength of 1 on beginning or end) or

> much else...

>

> IDL> aa = [a[0],a,0]

> IDL> b = where((aa-shift(aa,1)) ne 1)

> IDL> c = b-shift(b,1)

> IDL> print, c[1:*

> 4 2 1 2 3

>

> -k.

This worked beautifully. Thanks! -Andy
