Subject: Re: Counting the lengths of continuous numbers in an array
Posted by mankoff on Fri, 08 Aug 2008 21:28:20 GMT

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.