Subject: Re: Ordered index array
Posted by David Fanning on Wed, 07 Sep 2005 17:17:00 GMT
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David Fanning writes:

> How about this:
>
> PRO TEST
> a = [3,6,2,1,2,7,1,1]
> h = Histogram(a, Reverse_Indices=ri, Min=0)
> b = Indgen(N_Elements(h)) + 1
> c = Intarr(N_Elements(h))
> FOR j=0,N_Elements(h)-1 DO BEGIN
> IF ri[j+1] NE ri[j] THEN $
> c[ri[ri[j]:ri[j+1]-1]] = Min(b[ri[ri[j]:ri[j+1]-1]])
> ENDFOR
> Print, c
> END
>
> 1 2 3 4 3 6 4 4
>
> Note that your original example is wrong. :-)

Whoops! *I* didn't use the original example either (although
yours is still wrong!).

Here is a more complete solution, using the original data:

```
PRO TEST
a = [3,6,2,1,2,8,1,1]
h = Histogram(a, Reverse_Indices=ri, Min=0)
b = Indgen(N_Elements(h)) + 1
c = Intarr(N_Elements(h))
FOR j=0,N_Elements(h)-1 DO BEGIN
  IF ri[j+1] NE ri[j] THEN $
    c[ri[ri[j]:ri[j+1]-1]] = Min(b[ri[ri[j]:ri[j+1]-1]])
ENDFOR
Print, c[0:N_Elements(a)-1]
END
```

Cheers,

David

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David Fanning, Ph.D.