Subject: histogram & reverse_indices Posted by Ken Mankoff on Tue, 09 Apr 2002 19:15:20 GMT View Forum Message <> Reply to Message

Hi,

As you may have guessed from the subject, I have a question about histogram and reverse indices...

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I have a 2D array made up of n quadruplets. Ex: array =[[1,1,1,2], $
[1,1,1,1], $
[3,4,3,2], $
[3,3,0,0], $
[5,5,0,5]]
```

I want my algorithm to do the following: Return the index of all the quadruplets that have at least 3 out of 4 numbers equal to each other (i.e. for the above array, it should return [0,1,4].

I can do it in a for-loop as follows:

```
for i=0,n_elements(array[0,*])-1 do begin
  quad = array[*,i]
  hist = histogram( quad )
  hist = hist[ where( hist ne 0 ) ]
  if ( max( hist ) gt 3 then print, 'good' else print, 'bad'
endfor
```

But I think there is a way to do this without a for loop. Either using reverse_indices, or where(), I just cannot see it. Can you?

-k.

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