Subject: findng array[3] in array[3,n] Posted by T Bowers on Thu, 25 Jan 2001 16:47:42 GMT

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If I have
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a=[\$ [0,1,2], \$ [3,4,5], \$ [6,7,8]]

b=[3,4,5]

how do I find where in a is the row vector b? The answer should be 1, the 2nd row of a. I've tried many permutations of where(), but I just don't get it. The only way I can get an answer is to loop through the rows till i find a match. What I'm really tryin' to do is to find a color in a color table, e.g. load RAINBOW color table, (loadct,13) then identify where a color is. For the color that's listed 6th in the color table (an almost black) that'd be the 5th row index. Like:

loadct, 13 tvlct, r,g,b,/get colorTable = transpose([[r],[g],[b]]) ;//a [3, 256] array colorALMOSTBLACK=[22,0,9] indexALMOSTBLACK=where(colorTable eq colorALMOSTBLACK)

What I want is the answer 5 because if you print the 1st 6 rows of colortable you get:

print, colorTable[*,0:5]

0 0 0

4 0 3

9 0 7 13 0 10

18 0 14

22 0 19

I'm looking for that 6th row which is [22,0,9], my search array.

I've tried alot of different stuff, but i just don't get it IDL> print, where(colorTable eq colorALMOSTBLACK)

IDL> print, where(colorTable[*,0:*] eq colorALMOSTBLACK)

IDL> print, where(colorTable[*,0:*] eq colorALMOSTBLACK[0:*])

etc., etc., etc....

So, does anyone know see an elegant solution to this problem??

tia, tbowers