
Subject: Vector comparison.

Posted by [hunter](#) on Wed, 19 Nov 2003 19:38:57 GMT

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Hello,

These seems to be a fairly simple problem but I'm having difficulty coming up with an elegant solution.

Let's say I have two vectors of type integer:

A=[0,1,3,3,3,6,7,9,9]

B=[3,7]

I would like to design a function which returns the indices of all the elements of A which appear in B.

i.e.

C=get_match(A,B)

should return

C=[2,3,4,6]

The simplest answer (I believe) is to loop through B and use the where command. I just wonder if there is a way to do this without using the loop, as (in reality) the length of B may be very large.

I suppose another possibility is to use the histogram command with reverse_indices set. But I think this would still require me to use a loop. Although it may be faster since I would only have to call histogram once. Any thoughts?

Thanks,
Eli
