Subject: a vector of indices of the largest elements in a vector not exceeding the elements of some other vector
Posted by derek on Thu, 12 Jul 2001 18:05:47 GMT
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I have two vectors of different sizes (say, A and B):

A contains floating point values that increase with index
B contains floating point values

I'd like to create a third vector, C (which would be the same size as B) such that:

The nth element in C contains the index of the largest element in A that does not exceed the nth element in B.

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For example:

if

A=[10,20,30,40]
B=[12,37]

then

C=[0,2],

because the 0th element in A is the largest value in A that does not exceed 12, and the 2nd element in A is the largest value in A that does not exceed 37.

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I have found a way to do this if B is a single floating point value (not a vector of values):

temp=max(A<B,C)

but I haven't been able to find a way to do this with a vector B. Any ideas?