
Subject: Re: Complementary set.

Posted by [David Kastrup](#) on Thu, 24 Sep 1998 07:00:00 GMT

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Imanol Echave <ccaeccai@sc.ehu.es> writes:

> Hi people:

>

> I want to eliminate certain elements from an array. I've the index of the
> elements to be erased, and I want to obtain the "complementary" index (with the
> elements to maintain) to do `new_array=array[index]`. I can do this with a FOR
> loop, but... is it a better way?

Assume that the array size is in `sz`, and the indices in `ind`. Assume
that `ind` is non-empty. Then

```
invind = replicate(1,sz)
```

```
invind[ind] = 0
```

```
invind=where(invind)
```

does the trick in $O(n)$ time.

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