
Subject: Array Questions

Posted by [Eric Hudson](#) on Fri, 13 Apr 2007 16:19:13 GMT

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Hi,

I was wondering if anyone has any tricks for a couple of things I want to do with arrays.

1) Remove columns & rows

I have a 2D (NxN) array and want to remove column i and row j. i,j might be 0, they might be N-1, they might be anything in between. Is there something simpler than handling these 3 different cases separately and indexing `[[ARR[:,0:j-1]],ARR[:,j+1:N]]`...

2) Complements of sets

Often I end up with a set of element numbers and want to divide the array into two pieces, those in the set and those not in the set. Getting those in the set is trivial: `ARR[set]`. Is there a quick way of generating the complement? It's nice that `where()` will give you the complement, but I don't always get my sets from `where`.

3) "in set"

This isn't really isn't an array question, but I thought of it writing the previous question. It's easy to use `where` to find elements of an array that are equal to some value. Is there a quick way to find elements that are in a set of values, something like:

```
where(Arr in set)
```

rather than looping through the set and unioning the results:

```
where(arr eq set[0]),where(arr eq set[1])....
```

This is often where my above question #2 arises, because although you can easily union the `wheres` I'm not sure how to intersect the complements.

Thanks in advance,
Eric
