
Subject: Re: Removing equal elements from an array
Posted by [Jean H.](#) on Tue, 15 Aug 2006 19:14:22 GMT
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Rick Towler wrote:

```
> I'm sure there is a built in function that I am unaware of but here is
> one way:
>
> b = a - shift(a,2)
> c = a[*, where(b[1,*] ne 0)]
>
> IDL> print, a
>    20.4000    30.2000
>    40.3000    60.2000
>    50.2000    32.4000
>    50.2000    32.4000
> IDL> b = a - shift(a,2)
> IDL> print, b
>   -29.8000   -2.20000
>    19.9000    30.0000
>    9.90000   -27.8000
>    0.000000    0.000000
> IDL> c = a[*, where(b[1,*] ne 0)]
```

this seems to be incomplete...

you can have a value repeted in a column but not in another...

So you would have to get the indices on the 1st col and on the 2nd col.

```
IDL> a = transpose([[1,2,3,3,3],[5,5,4,4,1]])
IDL> print,a
  1    5
  2    5
  3    4
  3    4
  3    1
IDL> b = a - shift(a,2)
IDL> c = a[*, where(b[1,*] ne 0)]
IDL> print,c
  1    5
  3    4
  3    1
```

==>> 2;5 is missing!

so you should do

```
c = a[*, where(b[0,*] ne 0 or b[1,*] ne 0)]
```

```
IDL> print,c
```

1	5
2	5
3	4
3	1

we now have all entries..

Jean

```
> IDL> print, c
>    20.4000    30.2000
>    40.3000    60.2000
>    50.2000    32.4000
>
> -Rick
>
> Julio wrote:
>
>> Another question... please help me!!
>>
>> I have an array 'A' with two columns, latitudes and longitudes, and
>> several lines. A need to make another array with the elements of A that
>> don't repeat. An example:
>>
>> A[0]=[20.4, 40.3, 50.2, 50.2]
>> A[1]=[30.2, 60.2, 32.4, 32.4]
>>
>> Note that the third and fourth pairs are the same (50.2, 32.4). So, I
>> need to make another array and remove one of the pairs. So, I would
>> have:
>>
>> A[0]=[20.4, 40.3, 50.2]
>> A[1]=[30.2, 60.2, 32.4]
>>
>> Do you have any idea how to do that??
>>
>> Thanks!
>>
>> Julio
>>
```
