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
     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
>>
```