
Subject: Re: remove duplicates WITHOUT sorting
Posted by [Vince Hradil](#) on Mon, 12 Feb 2007 17:23:21 GMT
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On Feb 12, 11:04 am, "rpert...@gmail.com" <rpert...@gmail.com> wrote:

> Hello All,
> I have an array of 2xn which is a list of coordinates (x,y positions)
> and I need to remove any duplicates in this array. Since they are x,y
> coordinates I cannot really sort the array, hence cannot use the Uniq
> function. Is there another way of doing this?
> My array is similar to:
> [2 30
> 4 5
> 3 9
> 51 19
> 12 15
> 3 9
> 11 22
> 32 33
> 14 25]
>
> As you see index 4,5 is same as index 10,11. How do i rewrite this
> array without duplicates? Is there a general way of doing this, as
> some of my coordinates (to make matters even more complicated) are not
> exactly the same, but are close (3,9) and (3.5,9) - But I think I can
> figure this out with some if...then statements. Not sure how to remove
> them though. Any help is appreciated!
> Thank you,
> Radha

How about this:

```
function uniq_coords, coords
cc = complex( reform(coords[0,*]), reform(coords[1,*]) )
cc = cc[uniq(cc,sort(cc))]
cc = transpose( [ [float(cc)],[imaginary(cc)] ] )
return, cc
```

Of course this will make the return value floats, but you can fix that up to handle other types if you want.

Also, I have no idea how well this will perform - time to execute, robustness, etc - just seemed to work on your test array. "caveat emptor"
