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 5 4 > 3 9 > 19 51 > 12 15 > 3 9 > 22 11 > 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"