
Subject: Re: Finding duplicate values in an array
Posted by [slohmeie](#) on Tue, 19 Jul 1994 14:45:36 GMT
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In article <1994Jul18.171646@chapman.gsfc.nasa.gov>,
Ian Sprod <sprod@chapman.gsfc.nasa.gov> wrote:

>
> I seem to remember the topic of finding duplicate values in an array
> was discussed some months ago, but i never did read the end of the thread.
>
> What is the _fastest_ way to throw duplicated values out?
>
> thanks
>
> ian

This is how I'd do it:

```
;array of values  
arr = [.14, .11, .13, .12, .13, .13, .12, .13, .09, .13, .10, .12, .09, .14]
```

```
;sort array  
arr_sorted = arr(sort(arr))
```

```
;find disparity between adjacent elements  
n = n_elements(arr_sorted)  
disparity = arr_sorted(1:n-1)-arr_sorted(0:n-2)
```

```
;find locations where disparities are non-zero  
index = where(disparity)+1
```

```
;non-duplicated array  
arr_nodups = [arr_sorted(0), arr_sorted(index)]
```

END

Hope this helps.

Subject: Re: Finding duplicate values in an array
Posted by [andy](#) on Tue, 19 Jul 1994 19:12:05 GMT
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In article <30goug\$bkp@nyx10.cs.du.edu>, slohmeie@nyx10.cs.du.edu (stephen lohmeier)
writes:

> In article <1994Jul18.171646@chapman.gsfc.nasa.gov>,
> Ian Sprod <sprod@chapman.gsfc.nasa.gov> wrote:
>>

```

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>
> ;array of values
> arr = [.14, .11, .13, .12, .13, .13, .12, .13, .09, .13, .10, .12, .09, .14]
>
> ;sort array
> arr_sorted = arr(sort(arr))
>
> ;find disparity between adjacent elements
> n = n_elements(arr_sorted)
> disparity = arr_sorted(1:n-1)-arr_sorted(0:n-2)
>
> ;find locations where disparities are non-zero
> index = where(disparity)+1
>
> ;non-duplicated array
> arr_nodups = [arr_sorted(0), arr_sorted(index)]
>
> END
>
> Hope this helps.
>
>

```

How about this...

```

arr = [.14, .11, .13, .12, .13, .13, .12, .13, .09, .13, .10, .12, .09, .14]
arr_nodups = arr(unique(arr,sort(arr)))

```

Andy

--

```

,___o Andrew F. Loughe (Mail Code 971)
-\\_<, NASA Goddard Space Flight Center  phone: (301) 286-5899
(*)/(*) Greenbelt, MD 20771      email: andy.loughe@gsfc.nasa.gov

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