
Subject: Re: Difficulty with N_ELEMENTS command
Posted by [cgguido](#) on Fri, 10 Feb 2012 04:21:03 GMT
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Try:

```
FOR m=0,nyears-1 DO BEGIN
    dummy=WHERE(precip_day[m,*] gt smoothed, n)
    exceed_freq[m]=n
ENDFOR
```

Hope it helps.

G

Subject: Re: Difficulty with N_ELEMENTS command
Posted by [cgguido](#) on Fri, 10 Feb 2012 04:28:06 GMT
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You could also try "the IDL" way:

```
s=size(precip_day, /dim)
smoothed2=rebin(smoothed, s, /sample)
```

```
test=precip_day gt smoothed2
exceed_freq=total(test, 1)
```

Look mum! No loops!!

G

Subject: Re: Difficulty with N_ELEMENTS command
Posted by [Andrew King](#) on Fri, 10 Feb 2012 04:32:52 GMT
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On Feb 10, 3:28 pm, Gianguido Cianci <gianguido.cia...@gmail.com>
wrote:

```
> You could also try "the IDL" way:
>
> s=size(precip_day, /dim)
> smoothed2=rebin(smoothed, s, /sample)
>
```

```
> test=precip_day gt smoothed2
> exceed_freq=total(test, 1)
>
> Look mum! No loops!!
>
> G
```

Works perfectly now. Thanks very much.

Andrew

Subject: Re: Difficulty with N_ELEMENTS command
Posted by [Yngvar Larsen](#) on Sun, 12 Feb 2012 19:14:33 GMT
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On Feb 10, 5:03 am, Andrew King <andrewkin...@gmail.com> wrote:

```
> Hi.
>
> I'm trying to create an array of the number of elements that satisfy a
> certain criterion as below.
>
> FOR m=0,nyears-1 DO BEGIN
>   exceed_freq(m)=N_ELEMENTS(WHERE(precip_day(m,*) gt smoothed(*)))
> ENDFOR
>
> The problem I have is that for some years in my program there are no
> elements that satisfy this criterion, however the value returned in
> the array 'exceed_freq' is 1 instead of 0.
>
> I would appreciate any comments.
```

A one-liner solution (mostly because it fun :) could be

```
exceed_freq = total(precip_day gt
transpose(smoothed[*,lindgen(nyears)]), 2)
```

or

```
exceed_freq = total(transpose(precip_day) gt
smoothed[*,lindgen(nyears)], 1)
```

--
Yngvar

Subject: Re: Difficulty with N_ELEMENTS command

On Feb 12, 8:14 pm, Yngvar Larsen <larsen.yng...@gmail.com> wrote:

```
> A one-liner solution (mostly because it fun :) could be  
>  
> exceed_freq = total(precip_day gt  
> transpose(smoothed[*],lindgen(nyears))), 2)  
>  
> or  
>  
> exceed_freq = total(transpose(precip_day) gt  
> smoothed[*],lindgen(nyears)), 1)  
>  
> --  
> Yngvar
```

Ironically, Google Groups decided that my one-liners really should be two-liners :)

--
Yngvar
