
Subject: help with sorting vector elements in to subarrays

Posted by [Tito](#) on Mon, 21 May 2012 14:33:55 GMT

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Hallo!

I have this vector: `zz = [5,6,9,10,11]`

Anybody can tell me how I can sort it like `zz1 = [5,6]`, `zz2 =[9,10,11]`?

Here is the code:

```
zz = []
f=indgen(n_elements(amp))

;;I have amp[i] on witch some of the elements are identical.
;;I need to take this [i]indexies and
;;1-st to take it out
;;2nd to write it to another array [sub arrays]

for i=0L, n_elements(amp)-1 do begin
  a = where(amp[i] eq amp ,count)
  if count gt 0.0 then begin
    if n_elements(a) gt 1 then begin
      zz = [zz,i]
    endif
  endif
endfor

if n_elements(zz) ne 0.0 then begin
  match2,f,zz,subf,subzz
  f[subzz] = -1
  f = f[where(f[*] NE -1)]
endif
```

```
zz = Long[5]
      4      5      9      10      11

f = Int[13]
      0      1      2      3      6      7      8      12      13      14
      15     16     17
```

All the best,
Trifon

Subject: Re: help with sorting vector elements in to subarrays

Posted by [Tito](#) on Thu, 31 May 2012 13:53:24 GMT

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On Thursday, May 31, 2012 2:36:29 PM UTC+2, (unknown) wrote:

> Would this do it?

>

> for i = 0L, n_elements(ss)-1 do print,where(ss[i] eq amp)

>

> greg

Thanks for the fast answer Greg!

I all ready did something similar with:

```
for i = 0L , n_elements(ss)-1 do begin
  a = where(ss[i] eq amp,count)
  dd[i,a] = a
endfor
```

I just wanted to record this indexes in seperate arrays and use it later on.
But you are right... why not use it inside the loop???

For example:

```
for i = 0L, n_elements(ss)-1 do begin
  a = where(ss[i] eq amp,count)
  for ii = 0L, n_elements(a)-1 do spec = spec -
(amp[a[ii]]*exp((-1d0*(wave-line[a[ii]])^2d0)/var[a[ii]]))/n_elements(a)
endfor
```

I think I will be fine from now on....

Any way is there a way how to extract the needed data from ;; Now dd = Double[3, 20]

-1.0000000	-1.0000000	-1.0000000
-1.0000000	-1.0000000	-1.0000000
-1.0000000	-1.0000000	-1.0000000
3.0000000	-1.0000000	-1.0000000
4.0000000	-1.0000000	-1.0000000
-1.0000000	-1.0000000	-1.0000000
-1.0000000	6.0000000	-1.0000000
-1.0000000	7.0000000	-1.0000000
-1.0000000	8.0000000	-1.0000000
-1.0000000	-1.0000000	9.0000000
-1.0000000	-1.0000000	10.000000
-1.0000000	-1.0000000	-1.0000000
-1.0000000	-1.0000000	-1.0000000
-1.0000000	-1.0000000	-1.0000000
-1.0000000	-1.0000000	-1.0000000
-1.0000000	-1.0000000	-1.0000000

```
-1.0000000  -1.0000000  -1.0000000
-1.0000000  -1.0000000  -1.0000000
-1.0000000  -1.0000000  -1.0000000
-1.0000000  -1.0000000  -1.0000000
```

??? Just want to know.....

All the best!

Subject: Re: help with sorting vector elements in to subarrays

Posted by [greg.addr](#) on Thu, 31 May 2012 14:49:24 GMT

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If you want to record the sequences, the tricky part is to deal with their variable lengths. If you're using 8.x, you could try putting them in a list:

```
sequence=list()
```

```
then...
```

```
sequence.add,where(ss[i] eq amp)
```

```
print,sequence[i]
```

Or the older way was to use an array of pointers:

```
sequence=ptrarr(n_elements(ss))
```

```
...
```

```
sequence[i]=ptr_new(where(ss[i] eq amp))
```

```
print,*sequence[i]
```

```
greg
```
