
Subject: Re: Removing specific elements in an array
Posted by [gombgg](#) on Tue, 27 Jun 2017 21:57:44 GMT
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Mike beat me to it. My response is equivalent:

You shouldn't need loops.

You didn't define what you want to do with the first element, which has no predecessor. You also didn't specify whether your output array is allowed to have neighbouring elements that differ by one. (eg, what should happen if $x=[5,10,11,11,11,20]$?)

So long as the last element isn't one less than the first element, this will work:

```
result=x[where((x-shift(x,1)) ne 1,/null)]
```

If you want to make sure the last element doesn't mess things up, this should work:

```
inds=where((x-shift(x,1)) ne 1,count)
if count eq 0 then result=x[0] else begin
  if inds[0] ne 0 then inds=[0,inds] ;make sure the first element is included
  result=x[inds]
endelse
```