
Subject: Modifying an array while conserving memory
Posted by [Randall Skelton](#) on Fri, 24 May 2002 00:12:55 GMT
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Hi all,

I have a large array and I would like to 'insert' some data into the middle of it. Imagine an array of 1000 points and having 100 points to insert beginning at index 500 (the resulting array will have 1100 points). Typically, I do not know the length of data I wish to insert until after 'a' is defined.

```
a = findgen(1000)
b = randomu(seed,100)
c = fltarr(1100) ; seems wasteful to use more memory
c[0:499] = a[0:499]
c[500:599] = b
c[600:1099] = a[500:999]
```

In reality, 'a' is of order $2e7$ so I would like to avoid making multiple copies of it. Does anyone have any suggestions regarding the most memory efficient way of doing this?

Many thanks,
Randall
