## **Removing Multiple Elements**

Since, when you remove an element, the following elements are moved into the position of the deleted value, you have to be especially careful when removing multiple values from the same array. Here's an example:

```
for (size_t i = 0; i < size; ++i)
{
    if (a[i] == 7)
    {
        --size;
        for (size_t j = i; j < size; ++j)
        {
            a[j] = a[j + 1];
        }
    }
}</pre>
```

If you run it, you'll see that it doesn't quite work. It **should** remove all of the sevens from the partially-filled array, but removes only some of them.

As you can see, when you remove the first seven, you skip over the seven immediately following it. To fix this, make sure that you adjust the loop index, so that it **revisits the current index** whenever you remove an element. Here's the fixed version of this problem .



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