

Recently a student asked:

```
> i'm trying to use realloc in my program and i can't seem to get it to  
> work. i'm trying to expand an ever growing array of pointer to char  
>
```

```
> char** out;
```

```
> out=(char**)realloc(out,1);
```

```
>
```

I haven't ever used realloc (before just now), but essentially what you have worked for me:

(Notice that I didn't have to copy in the old locations.)

```
runner% cat realloct.c
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
void main(void)
```

```
{
```

```
    char **out;
```

```
    char **p;
```

```
    out = (char **) malloc(4*sizeof(char*));
```

```
    out[0] = "Now";
```

```
    out[1] = "is";
```

```
    out[2] = "the time";
```

```
    out[3] = NULL;
```

```
    p = out;
```

```
    while (*p != NULL)
```

```
        printf("%s\n", *(p++));
```

```
    out = (char **) realloc(out, 7*sizeof(char *));
```

```
    out[3] = "for all good";
```

```
    out[4] = "to come to the aid";
```

```
    out[5] = "of their party";
```

```
    out[6] = NULL;
```

```
    p = out;
```

```
    while (*p != NULL)
```

```
        printf("%s\n", *(p++));
```

```
}
```

```
runner% lint -m -u realloct.c
```

function returns value which is always ignored

```
    printf
```

```
runner% cc -o realloct realloct.c
```

```
runner% realloct
```

```
Now
```

```
is
```

```
the time
```

```
Now
```

```
is
```

```
the time
```

```
for all good
```

```
to come to the aid
```

```
of their party
```