

```
int *darr;
int size = 100;
darr = (int *) malloc (size* sizeof(int) );
int count = 0;
```

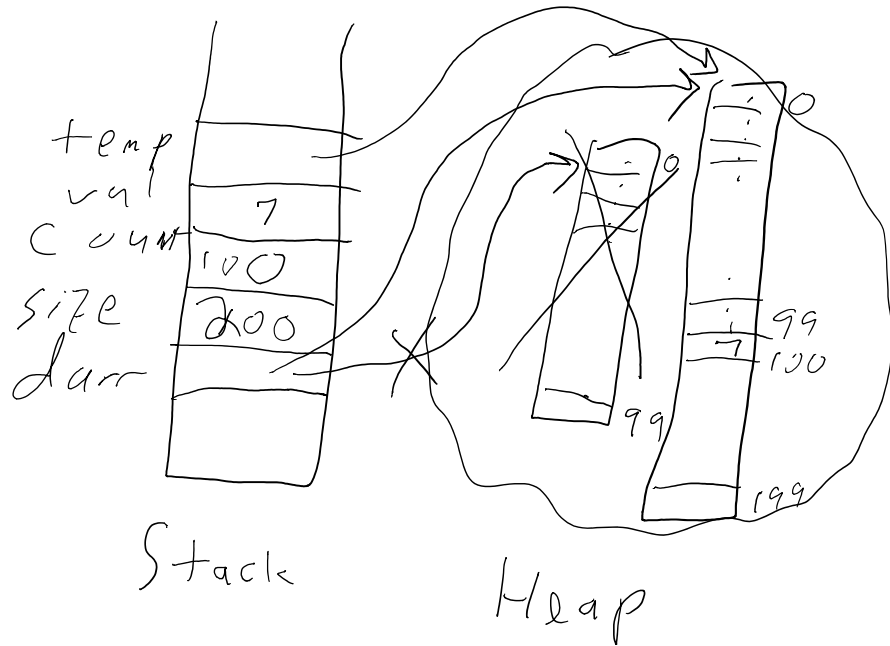
From <<https://www.cs.uic.edu/pub/CS211/ProjectS18/proj1s18.pdf>>

```
int val;
/* loop until the user enters -999 */
scanf ("%d", &val);
while (val != -999)
{
  /* CHECK IF ARREY IS FULL */
  if ( count >= size )
  {
    /* Grow the array */
    int *temp;
    temp = (int *) malloc ( size * 2 * sizeof(int) );

    int i;
    for ( i = 0 ; i < size ; i++)
      temp[i] = darr[i];

    free (darr);
    darr = temp;
    size = size * 2;
  }

  darr[count] = val;
  count++;
  scanf("%d", &val);
}
```



From <<https://www.cs.uic.edu/pub/CS211/LabsS18/lab1b.c>>

Grow the array code copied from Project 1 with comments added

```
/* create a new larger array */
int *temp;
```

```
temp = (int *) malloc ( size * 2 * sizeof(int) );

/* copy the existing values from the smaller array to the larger array */
int i;
for ( i = 0 ; i < size ; i++)
    temp[i] = darr[i];

/* return the memory from the smaller array back to the OS */
free (darr);

/* update the array reference used by the program to refer to the
   larger array */
darr = temp;

/* update the size variable to properly reflect the amount of space the
   larger array can hold */
size = size * 2;
```

From <<https://www.cs.uic.edu/pub/CS211/ProjectS18/proj1s18.pdf>>