

Find a character which appears maximum number of times in string

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#define COUNT 256

char getMaximumOccuringChar(char *str)
{
    int temp[COUNT] = {0};
    int len = strlen(str), max = -1, i;
    char result;
    for(index = 0; index < len; index++)
        temp[str[index]]++;
    for(index = 0; index < len; index++ )
    {
        if(max < temp[str[index]])
        {
            max = temp[str[index]];
            result = str[index];
        }
    }
    return result;
}

int main()
{
    char str[100];
    printf("Enter string");
    scanf("%s", str);
    printf("Maximum occuring character is = %c\n", getMaximumOccuringChar(str));
    return 0;
}
```

Time complexity: $O(n)$

Space compleixity: $O(k)$ where $k = 256$