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...ingCopy\02-UsingUserDefinedFunction_MyStrcpy\StringCopy.c
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1
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```
#include <stdio.h>
 2
 3 #define MAX_STRING_LENGTH 512
 4
 5 int main(void)
 6 {
 7
        //function prototype
 8
        void MyStrcpy(char[], char[]);
 9
10
        //variable declarations
        char chArray_Original[MAX_STRING_LENGTH], chArray_Copy[MAX_STRING_LENGTH]; // >
11
         A Character Array Is A String
12
13
        //code
14
15
        // *** STRING INPUT ***
        printf("\n\n");
16
        printf("Enter A String : \n\n");
17
18
        gets_s(chArray_Original, MAX_STRING_LENGTH);
19
        // *** STRING COPY ***
20
21
       MyStrcpy(chArray_Copy, chArray_Original);
22
        // *** STRING OUTPUT ***
23
24
        printf("\n\n");
        printf("The Original String Entered By You (i.e : 'chArray_Original[]') Is :
25
          n'n;
26
        printf("%s\n", chArray_Original);
27
28
        printf("\n\n");
        printf("The Copied String (i.e : 'chArray_Copy[]') Is : \n\n");
29
        printf("%s\n", chArray_Copy);
30
31
32
        return(0);
33 }
34
35 void MyStrcpy(char str_destination[], char str_source[])
36
   {
37
        //function prototype
38
        int MyStrlen(char[]);
39
40
        //variable declarations
41
        int iStringLength = 0;
42
        int j;
43
44
        //code
45
        iStringLength = MyStrlen(str_source);
        for (j = 0; j < iStringLength; j++)</pre>
46
47
            str_destination[j] = str_source[j];
48
49
        str_destination[j] = '\0';
50 }
```

```
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```

```
2
```

```
51
52 int MyStrlen(char str[])
53 {
        //variable declarations
54
55
        int j;
        int string_length = 0;
56
57
58
       //code
        // *** DETERMINING EXACT LENGTH OF THE STRING, BY DETECTING THE FIRST
59
         OCCURENCE OF NULL-TERMINATING CHARACTER ( \0 ) ***
        for (j = 0; j < MAX_STRING_LENGTH; j++)</pre>
60
61
62
            if (str[j] == '\0')
63
                break;
64
            else
65
                string_length++;
66
       return(string_length);
67
68 }
69
```