

```
1  #include <stdio.h>
2
3  #define MAX_STRING_LENGTH 512
4
5  int main(void)
6  {
7      //function prototype
8      int MyStrlen(char[]);
9      void MyStrcpy(char[], char[]);
10
11     //variable declarations
12     char chArray[MAX_STRING_LENGTH], chArray_SpacesRemoved[MAX_STRING_LENGTH]; // ?
13     // A Character Array Is A String
14     int iStringLength;
15     int i, j;
16
17     //code
18
19     // *** STRING INPUT ***
20     printf("\n\n");
21     printf("Enter A String : \n\n");
22     gets_s(chArray, MAX_STRING_LENGTH);
23
24     iStringLength = MyStrlen(chArray);
25     j = 0;
26     for (i = 0; i < iStringLength; i++)
27     {
28         if (chArray[i] == ' ')
29             continue;
30         else
31         {
32             chArray_SpacesRemoved[j] = chArray[i];
33             j++;
34         }
35     }
36
37     chArray_SpacesRemoved[j] = '\0';
38
39     // *** STRING OUTPUT ***
40     printf("\n\n");
41     printf("String Entered By You Is : \n\n");
42     printf("%s\n", chArray);
43
44     printf("\n\n");
45     printf("String After Removal Of Spaces Is : \n\n");
46     printf("%s\n", chArray_SpacesRemoved);
47
48     return(0);
49 }
50
51 int MyStrlen(char str[])
52 {
```

```

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

```