```c
#include <stdio.h>

#define MAX_STRING_LENGTH 512

int main(void)
{
    //function prototype
    int MyStrlen(char[]);
    void MyStrcpy(char[], char[]);

    //variable declarations
    char chArray[MAX_STRING_LENGTH]; // A Character Array Is A String
    int iStringLength;
    int i;
    int word_count = 0, space_count = 0;

    //code

    // *** STRING INPUT ***
    printf("\n\n");
    printf("Enter A String : \n\n");
    gets_s(chArray, MAX_STRING_LENGTH);

    iStringLength = MyStrlen(chArray);

    for (i = 0; i < iStringLength; i++)
    {
        switch (chArray[i])
        {
        case 32: //32 IS THE ASCII VALUE FOR SPACE (' ') CHARACTER
            space_count++;
            break;
        default:
            break;
        }
    }

    word_count = space_count + 1;

    // *** STRING OUTPUT ***
    printf("\n\n");
    printf("String Entered By You Is : \n\n");
    printf("%s\n", chArray);

    printf("\n\n");
    printf("Number Of Spaces In The Input String = %d\n\n", space_count);
    printf("Number Of Words In The Input String = %d\n\n", word_count);

    return(0);
}

int MyStrlen(char str[])
```

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