```
File - D:\cpl\2023-cpl-coding-0\9-pointers-c-strings\strlen.c
 1 //
 2 // file: strlen.c
 3 // Created by hfwei on 2023/11/29.
 4 // See https://en.cppreference.com/w/c/string/byte/strlen
 7 #include <stdio.h>
 9 int StrLen(const char *s);
10 int StrLen1(const char *s);
11 int StrLen2(const char *s);
12 // The behavior is undefined if str is not a pointer to a null-
   terminated byte string.
13 size_t StrLenStd(const char *s);
15 int main() {
    char msg[] = "Hello World!";
16
17
18
     printf("StrLen(%s) = %d\n", msg, StrLen(msg));
19
     printf("StrLenStd(%s) = %zu\n", msg, StrLenStd(msg));
20
21
    return 0;
22 }
23
24 int StrLen(const char *s) {
     int len = 0;
     while (s[len] != '\0') {
26
27
       len++;
28
     }
29
30 return len;
31 }
32
33 int StrLen1(const char *s) {
    int len = 0;
35
     while (s[len++] != '\0');
36
37 return len - 1;
38 }
39
40 int StrLen2(const char *s) {
41
   int len = -1;
42
     while (s[++len] != '\0');
43
44
   return len;
45 }
46
47 size_t StrLenStd(const char *s) {
48
     const char *sc;
     for (sc = s; *sc != '\0'; sc++);
49
50
51
    return sc - s;
52 }
```