

# Format Specifiers in C

Specifier	Used For
%X	a hexadecimal (base 16) integer
%p	an address (or pointer)
%f	a floating point number for floats
%u	int unsigned decimal

## Format Specifiers in C - freeCodeCamp

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HelloWorld.c X

HelloWorld.c &gt; main()

```
14 //strncpy(string1, string2, 2);           // copy n characters of string2 to string1
15
16 //memset(string1, '?');           //sets all characters of a string to a given character
17 //strnset(string1, 'x', 1); //sets first n characters of a string to a given character
18 //strrev(string1);           //reverses a string
19
20 //int result = strlen(string1);           // returns string length as int
21 //int result = strcmp(string1, string2);   // string compare all characters
22 //int result = strncmp(string1, string2, 1); // string compare n characters
23 int result = strcmpi(string1, string1);    // string compare all (ignore case)
24 int result = strnicmp(string1, string1, 1); // string compare n characters (ignore case)
25
26 printf("%d", result);
27
28 /*
29 if(result == 0)
30 {
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
PS C:\Users\Cakow\Desktop\C Files> cd "c:\Users\Cakow\Desktop\C Files\" ; if ($?) { gcc HelloWorld.c -o HelloWorld } ; if ($?) { .\HelloWorld }
These strings are the same
PS C:\Users\Cakow\Desktop\C Files> 
```

+ ^ x

powershell

Code





C HelloWorld.c 1 X

C HelloWorld.c &gt; main()

```
1  #include <stdio.h>
2  #include <string.h>
3
4  int main(){
5
6      char string1[] = "Bro";
7      char string2[] = "Code";
8
9      strlwr(string1);                // converts a string to lowercase
10     //strupr(string1);              // converts a string to uppercase
11     //strcat(string1, string2);      // appends string2 to end of string1
12     //strncat(string1, string2, 1);  // appends n characters from string2 to str
13     //strcpy(string1, string2);      // copy string2 to string1
14     //strncpy(string1, string2, 2);  // copy n characters of string2 to string1
15
16     //strset(string1, '?');          //sets all characters of a string to a given character
17     //strnset(string1, 'x', 1);      //sets first n characters of a string to a given character
```

PROBLEMS 1 OUTPUT TERMINAL DEBUG CONSOLE

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Code



C HelloWorld.c X

C HelloWorld.c &gt; main()

```
6  
7  
8 int main()  
9 {  
10     // pointer = a "variable-like" reference that holds a memory address to another variable, a  
11     //         some tasks are performed more easily with pointers  
12     //         * = indirection operator (value at address)  
13  
14     int age = 21;  
15     int *pAge = NULL; //good practice to assign NULL if declaring a pointer  
16     pAge = &age;  
17  
18     //printf("address of age: %p\n", &age);  
19     //printf("value of pAge: %p\n", pAge);
```

```
C HelloWorld.c > main()
```

```
return 0;
```

PS C:\Users\andrea\OneDrive\Documents>

and after dereferencing this pointer

1 `#include <stdio.h>`

2

3 `int main()`

4 `{`

5

6

7

8

9

10

11

12

## Advantages of Using Pointers

- Less time in program execution.
- Working on the original variable.
- With the help of pointers, we can create data structures (linked-list, stack, queue).
- Returning more than one values from functions.
- Searching and sorting large data very easily.
- Dynamically memory allocation.

PROBLEMS

Window

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PS C:\Users\Cakow\Desktop\C Files>

Ln 9, Col 4 Spaces: 3 UTF-8 CRLF C Win32