

C Format Specifiers

Commonly used format specifiers in C with examples

1. %d : Integer (signed)

Example: `int age = 12; printf("%d", age);` // Output: 12

2. %f : Float (decimal number)

Example: `float pi = 3.14159; printf("%f", pi);` // Output: 3.141590

Example: `printf("%.2f", pi);` // Output: 3.14

3. %c : Character

Example: `char grade = 'A'; printf("%c", grade);` // Output: A

4. %s : String (char array)

Example: `char name[] = "Moe"; printf("%s", name);` // Output: Moe

5. %u : Unsigned Integer (only positive)

Example: `unsigned int score = 100; printf("%u", score);` // Output: 100

6. %x : Hexadecimal (lowercase)

Example: `int num = 255; printf("%x", num);` // Output: ff

7. %p : Pointer (memory address)

Example: `int a = 5; printf("%p", (void*)&a);` // Output: 0x7ffee37b4a2c

8. %% : Percent sign

Example: `printf("100%% Complete");` // Output: 100% Complete