In C programming, a format specifier is a special sequence of characters used within input/output functions like <code>printf()</code> and <code>scanf()</code> to indicate the data type and format of the data being read or displayed. It instructs the compiler on how to interpret and handle the data.

Format specifiers begin with a percentage sign (%) followed by a character (or sequence of characters) that denotes the data type.

Common Format Specifiers in C:

- %d or %i: For signed decimal integers (e.g., int).
- %f: For single-precision floating-point numbers (e.g., float).
- %1f: For double-precision floating-point numbers (e.g., double).
- %c: For a single character (e.g., char).
- %s: For a string of characters (e.g., char[]).
- %u: For unsigned decimal integers.
- %1d: For long signed decimal integers.
- %1u: For unsigned long decimal integers.
- %x or %x: For hexadecimal integers.
- %o: For octal integers.
- %p: For printing memory addresses (pointers).
- %%: To print a literal percentage sign