

## DIFFERENCE BETWEEN C AND C++

(a) In C++, local variables can be declared anywhere within a block, while in C, they must be declared at the start of block, before any "action" statement occurs.

(b) **In C, a function declaration line:** `int fn()` says nothing about any parameter to that function, i.e. it might have parameter or not while in C++ it indicates that function does not have parameters.

i.e. `int fn()`  
`int fn(void)` ] are equivalent

For any parameter in C++, we will write `int fn(...)`.

(c) In C++ all functions must be prototyped. This is an option in C.

(d) A character constant `char ch = 'x'` automatically elevated or raised to an integer while that is not true in C++.

(e) In C, it is an error to declare a global variable several times while not in C++ although it's a bad programming practice.

(f) In C, an identifier can take 32 characters, while in C++, no length of identifier is specified. It can take any number of characters.

(g) In C, it can't take the address of register variable, while in C++ it is allowed.

(h) In C, if no type specifier is present in some type of declaration, the type 'int' is assumed. This "default int" rule no longer applied to C++.