C++ QUICK REFERENCE

PREPROCESSOR

```
                        // Comment to end of line
                        /* Multi-line comment */
#include <stdio.h>      // Insert standard header file
#include "myfile.h"     // Insert file in current directory
#define X some text     // Replace X with some text
#define F(a,b) a+b      // Replace F(1,2) with 1+2
#define X \
  some text             // Line continuation
#undef X                // Remove definition
#if defined(X)          // Conditional compilation (#ifdef X)
#else                   // Optional (#ifndef X or #if !defined(X))
#endif                  // Required after #if, #ifdef
```

LITERALS

```
255, 0377, 0xff         // Integers (decimal, octal, hex)
2147483647L, 0x7fffffffL // Long (32-bit) integers
123.0, 1.23e2           // double (real) numbers
'a', '\141', '\x61'     // Character (literal, octal, hex)
'\n', '\\', '\'', '\"'  // Newline, backslash, single quote, double
quote
"string\n"              // Array of characters ending with newline and
\0
"hello" "world"         // Concatenated strings
true, false             // bool constants 1 and 0
```

DECLARATIONS

```
int x;                  // Declare x to be an integer (value undefined)
int x=255;              // Declare and initialize x to 255
short s; long l;        // Usually 16 or 32 bit integer (int may be
either)
char c='a';             // Usually 8 bit character
unsigned char u=255; signed char s=-1;  // char might be either
unsigned long x=0xffffffffL;            // short, int, long are signed
float f; double d;      // Single or double precision real (never
unsigned)
bool b=true;            // true or false, may also use int (1 or 0)
int a, b, c;            // Multiple declarations
int a[10];              // Array of 10 ints (a[0] through a[9])
int a[]={0,1,2};        // Initialized array (or a[3]={0,1,2;} )
int a[2][3]={{1,2,3},{4,5,6}};  // Array of array of ints
char s[]="hello";       // String (6 elements including '\0')
int* p;                 // p is a pointer to (address of) int
char* s="hello";        // s points to unnamed array containing "hello"
void* p=NULL;           // Address of untyped memory (NULL is 0)
int& r=x;               // r is a reference to (alias of) int x
enum weekend {SAT,SUN}; // weekend is a type with values SAT and SUN
enum weekend day;       // day is a variable of type weekend
enum weekend {SAT=0,SUN=1}; // Explicit representation as int
enum {SAT,SUN} day;     // Anonymous enum
typedef String char*;   // String s; means char* s;
```

const

```
const int c=3;          // Constants must be initialized, cannot assign
to
const int* p=a;         // Contents of p (elements of a) are constant
int* const p=a;         // p (but not contents) are constant
const int* const p=a;   // Both p and its contents are constant
const int& cr=x;        // cr cannot be assigned to change x
```

STORAGE CLASSES

```
int x;                  // Auto (memory exists only while in scope)
static int x;           // Global lifetime even if local scope
extern int x;           // Information only, declared elsewhere
```

STATEMENTS

```
x=y;                    // Every expression is a statement
int x;                  // Declarations are statements
;                       // Empty statement

{                       // A block is a single statement
  int x;                // Scope of x is from declaration to end of
block
  a;                    // In C, declarations must precede statements
}
if (x) a;               // If x is true (not 0), evaluate a
else if (y) b;          // If not x and y (optional, may be repeated)
else c;                 // If not x and not y (optional)

while (x) a;            // Repeat 0 or more times while x is true

for (x; y; z) a;        // Equivalent to: x; while(y) {a; z;}

do a; while (x);        // Equivalent to: a; while(x) a;

switch (x) {            // x must be int
  case X1: a;           // If x == X1 (must be a const), jump here
  case X2: b;           // Else if x == X2, jump here
  default: c;           // Else jump here (optional)
}
break;                  // Jump out of while, do, or for loop, or switch
continue;               // Jump to bottom of while, do, or for loop
return x;               // Return x from function to caller
try { a; }
catch (T t) { b; }      // If a throws a T, then jump here
catch (...) { c; }      // If a throws something else, jump here
```

FUNCTIONS

```
int f(int a, int b);    // f is a function taking 2 ints and returning
int
void f();               // f is a procedure taking no arguments
void f(int a=0);        // f() is equivalent to f(0)
f();                    // Default return type is int
inline f();             // Optimize for speed
f() { statements; }     // Function definition (must be global)
T operator+(T x, T y);  // a+b (if type T) calls operator+(a, b)
T operator-(T x);       // -a calls function operator-(a)
T operator++(int);      // postfix ++ or -- (parameter ignored)
extern "C" {void f();}  // f() was compiled in C
```

C Quick Reference

Chris H. Pappas,William H. Murray

C Quick Reference:

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