

C++ References Sheet Cheat Sheet

by vittochan (vittochan) via cheatography.com/26692/cs/36424/

Include Headers		
#include <headername></headername>		
#include <iostream></iostream>	Several standard stream objects	
#include <string></string>	std::basic_string class template	
#include $$	Behaves as if each name from <cmath> is placed in global namespace, except for names of mathematical special functions</cmath>	
#include <fstream></fstream>	std::basic_fstream, std::basic_ifstream, std::basic_ofstream class templates and several typedefs	
#include <cctype></cctype>	Behaves as if each name from <cctype> is placed in global namespace</cctype>	

Namespace

using namespace std;

Data Types		
int	integer type (-32768 to 32767)	
char	single character type	
float	Floating-point types (single precision)	
double	Floating-point types (double precision)	
bool	true or false	
void	type with an empty set of values	

Comments

//Single line /*Multiple lines*/

Pointers

int *ptr;	Pointer definition	
ptr = &var1	ptr set to address of var1	
var2 = *ptr;	set var2 to value of var1	

Arithmetic Operators

Arithmetic Operators		
+, -, *, /	Addition, subtraction, multiplication, division	
%	Modulus (rest of division)	
++	Add 1 to variable (example : i++)	
	Subtract 1 to variable (exam ple: i)	
+=, -=, *=, /=	Add/subtract/multiply/divide a value from the variable (e xample: i+=2; is equal to	

Relational Operators

<	Less than
<=	Less or Equal than
>	Greater than
>=	Greater or Equal than
==	Equal than
!=	Not Equal than

Logical Operators

II	OR	
&&	AND	
!	NOT	

If Else

```
if (condition) {
   \\Do something
} else if (condition) {
   \\Do something
} else {
   \\Do something
}

condition must be a condition that return a
```

boolean value *true* or *false* **else/else if** blocks are optional

Switch

```
switch (variable) {
case constant1:
   \\Do something
break;
case constant2:
   \\Do something
break;
default:
   \\Do something
break;
}
```

While Loop

```
while (condition) {
   \\Do something
}
```

default is optional

Loop as long as the *condition* is *true*, when it becomes *false* it exits



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Do-While Loop

```
do {
   \\Do something
} while (condition);
```

Loop as long as the *condition* is *true*, when it becomes *false* it exits

For Loop

```
for (initialize, condition, update) {
   \\Do something
}
example:
for (int i=0; i<10; i++) {
   \\Do something
}</pre>
```

Loop as long as the *condition* is *true*, when it becomes *false* it exits



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