Cheatography

C++ Exam 1 Cheat Sheet
by Fahad (Zilard) via cheatography.com/164660/cs/34499/

Definitions	
Algorithm	A guide of steps to solution.
Flowcharts	Graphical representation of algorithm
Pseudocode	Language used to represent algorithm.
Preprocessing Directives	Commands that are preceded by the # sign
Memory	Used to store information for immediate use
Bit	Stores 0 or 1
Byte	Group of eight bits
Comments	
Line comment	// text
Block comment	/ * text * /
Output & Input S	statements
cout (Print)	cout<<"text";
cin (Request inp	ut) cin>>variable
Constants	
Used to represe the program.	nt values used throughout
Constants shoul letters.	d be named in uppercase

Escape Sequences		
∖n	Newline	Cursor moves to next line
\t	Tab	Cursor moves to next tab stop
\b	Backspace	Cursor moves one space to left
\r	Return	Cursor returns to beginning of current line

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Escape Sequences (cont)

//	Backslas	h Backslash is printed		
\'	single	single quotation is		
	quotation	printed		
\"	Double	Double quotation is		
	quotation	pritned		
Lite	Literals			
integer		4		
floating point		3.1415926		
string		"string"		
Boolean		false		
character		'A'		
Da	ta types			
int in		integer literals		

iiit	integer interais
float	floating point literals
double	floating point literals
string	string literal
char	character literal
bollean	boolean literal

long double (Highest)
double
float
unsigned long
long
unsigned int
int
char (Lowest)

Type Conversion

Implicit Type	Automatic change in type of
Coercion	value
Туре	Automatic change of an
Coercion	operand to another type
Promotion	Convert to higher type
Demotion	Convert to lower type

Casting

Also called type casting. Used for manual data type conversion.

Format: static_cast<type>(expression)

PEMDAS (Order of Operations)	
Parentheses	[], ()
Multiplication & Division	*, /, %
Addition and Subtraction	+, -

Switch Statements

Switch Statements
switch (variable)
{
case value1:
// do something
break;
case value2:
// do something else
break;
default:
// do something by default
break;
}

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Converting between Switch &
switch (variable)
{
case value1:
// do something
break;
case value2:
// do something else
break;
default:
// do something by default
break;
}

This is equivalent to:

```
if ( variable == value1 )
{
  // do something
}
else if ( variable = value2 )
{
  // do something else
}
else
{
  // do something by default
}
```

Arithmetic Operators

+	Addition	x+y
-	Subtraction	х-у
*	Multiplication	x*y
/	Division	x/y
%	Modulus (integer arithmetic)	х % у
Rela	ational Operators	
<	Less than	х < у
>	Greater than	x > y
<=	Less than or equal to	х <= у
>=	Greater than or equal to	x >=y
!=	Not equal to	x != y

Logical Operators

LUGIC			
&&	AND	NEw relational expression is true if both expressions are true	
!!	OR	New relation expression is true if either is true	
!	NOT	Reverses the value of an expression. True to false and false to true	
Order from highest to lowest: !, &&,			
Prece	edence	for ALL Operators	
Arithmetic Operators (Highest)			
Deletional Oneretary			

Relational Operators

Logical Operators (Lowest)

Increment and Decrement

prefix	++x,y
postifx	х++,у

For prefix, the value changes and then get evaluated, and vice versa for the postfix.

Control Flow - If Statements

if (conditional) { // do something } else if (another_conditional) { // do something else } else { // do something as default }

Control Flow - While Loops

while (conditional)
{
// do something
}

For Loops

for (initialization; test; command) {
// do something
}

Converting Between For & While
for (initialization; test; command)
{
// do something
}
this is equivalent to:
initialization;
while(test)
{
// do something
command;
}
,

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