

Appendix A



Operator Precedence



NOTE A.1

Operator Precedence

<i>Default operation</i>	<i>C and C++</i>	<i>C++ Only</i>	<i>Associativity</i>
<i>scope</i>		::	left to right
<i>primary</i>	() [] -> .	type() const_cast dynamic_cast reinterpret_cast static_cast typeid	left to right
<i>unary</i>	++ -- ! ~ (type) + - * & sizeof	new delete	right to left
<i>select pointer</i>		.* ->*	left to right
<i>multiplicative</i>	* / %		left to right
<i>additive</i>	+ -		left to right
<i>shift</i>	<< >>		left to right
<i>relational</i>	< <= > >=		left to right
<i>equality</i>	== !=		left to right
<i>bitwise</i>	&		left to right
<i>bitwise</i>	^		left to right
<i>bitwise</i>			left to right
<i>logical</i>	&&		left to right
<i>logical</i>			left to right
<i>conditional</i>	?:		right to left
<i>assignment</i>	= += -= *= /= %= <<= >>= &= = ^=		right to left
<i>throw</i>		throw	left to right
<i>comma</i>	,		left to right



NOTE A.2

Default Operator Meanings

Operators Common to Both C and C++					
()	Function Call	[]	Array access	->	Struct/Union Ptr
.	Struct/Union Mbr	++	Increment	--	Decrement
!	Logical Negation	~	One's Complement	(<i>type</i>)	Typecast
+	Unary Plus	-	Unary Minus	*	Indirection
&	Address	sizeof	Byte Count	*	Multiplication
/	Division	%	Modulus	+	Addition
-	Subtraction	<<	Left Shift	>>	Right Shift
<	Less Than	<=	Less or Equal	>	Greater Than
>=	Greater or Equal	==	Equality	!=	Inequality
&	Bitwise And	^	Exclusive Or		Bitwise Or
&&	Logical And		Logical Or	?:	Conditional
=	+=	-=	*=	/=	%=
<<=	>>=	&=	=	^=	
Assignment				,	Comma

C++ Only Operators			
::	Scope Resolution	typeid	Type Identification
<i>type</i> ()	Typecast	new	Allocate Memory
const_cast	Typecast	delete	Deallocate Memory
dynamic_cast	Typecast	.*	Member Dereference
reinterpret_cast	Typecast	->*	Indirect Member Dereference
static_cast	Typecast	throw	Throw Exception

