Appendix A

C++ Operators

Description	Operator	Arity	Prec.	Assoc.
scope	::	2	18	right
subscript	[]	2	17	left
function call	()	2	17	left
construction	type()	1	17	right
member access	.	2	17	left
member access	->	2	17	left
post-increment	++	1	17	left
post-decrement	--	1	17	left
dynamic cast	dynamic_cast<>	1	17	right
static cast	static_cast<>	1	17	right
reinterpret cast	reinterpret_cast<>	1	17	right
const cast	const_cast<>	1	17	right
type identification	typeid	1	17	right
pre-increment	++	1	16	right
pre-decrement	--	1	16	right
dereference	*	1	16	right
address	&	1	16	right
bitwise complement	~	1	16	right
logical not	!	1	16	right
sign	+	1	16	right
sign	-	1	16	right
sizeof	sizeof	1	16	right
new	new	1	16	right
delete	delete	1	16	right
cast	(type)	1	16	right
member pointer	->*	2	15	left
member pointer	.*	2	15	left
...				

			...	
multiplication	*	2	14	left
division (integer)	/	2	14	left
modulus	%	2	14	left
addition	+	2	13	left
subtraction	-	2	13	left
output/left shift	<<	2	12	left
input/right shift	>>	2	12	left
less	<	2	11	left
greater	>	2	11	left
less equal	<=	2	11	left
greater equal	>=	2	11	left
equality	==	2	10	left
inequality	!=	2	10	left
bitwise and	&	2	9	left
bitwise xor	^	2	8	left
bitwise or	|	2	7	left
logical and	&&	2	6	left
logical or	||	2	5	left
assignment	=	2	4	right
mult assignment	*=	2	4	right
div assignment	/=	2	4	right
mod assignment	%=	2	4	right
add assignment	+=	2	4	right
sub assignment	-=	2	4	right
rshift assignment	>>=	2	4	right
lshift assignment	<<=	2	4	right
and assignment	&=	2	4	right
xor assignment	^=	2	4	right
or assignment	|=	2	4	right
selection	?	3	3	right
exception	throw	1	2	right
sequencing	,	2	1	left

Table 9: *Precedences and associativities of C++ operators.*