

Appendix E

Operator Precedence and Associativity

The table below shows precedence and associativity for all the C++ operators. In case of doubt, parentheses.

| Operators | Associativity |
|--|---------------|
| () [] -> . ++ (<i>postfix</i>) -- (<i>postfix</i>) | left to right |
| ++ (<i>prefix</i>) -- (<i>prefix</i>) ! ~ sizeof(<i>type</i>) + (<i>unary</i>) - (<i>unary</i>) & (<i>address</i>) * (<i>indirection</i>) | right to left |
| * / % | left to right |
| + - | left to right |
| << >> | left to right |
| < <= > >= | left to right |
| == != | left to right |
| & | left to right |
| ^ | left to right |
| | left to right |
| && | left to right |
| | left to right |
| ?: | right to left |
| = += -= *= /= *= >>= <<= &= ^= = | right to left |
| , (<i>comma operator</i>) | left to right |

