| 1 | :: | Scope resolution operator | left to right |
| :---: | :---: | :---: | :---: |
| 2 | () | Function call | left to right |
|  | () | Member initalization |  |
|  | [] | Array access |  |
|  | -> | Member access from a pointer |  |
|  | . | Member access from an object |  |
|  | ++ | Post-increment |  |
|  | -- | Post-decrement |  |
|  | dynamic_cast | Runtime-checked type conversion |  |
|  | static_cast | Unchecked type conversion |  |
|  | reinterpret_cast | Reinterpreting type conversion |  |
|  | const_cast | Cast away/Add constness |  |
|  | typeid | Get type information |  |
| 3 | ! | Logical negation | right to left |
|  | not | Alternate spelling for ! |  |
|  | $\sim$ | Bitwise complement |  |
|  | compl | Alternate spelling for ~ |  |
|  | ++ | Pre-increment |  |
|  | -- | Pre-decrement |  |
|  | - | Unary minus |  |
|  | + | Unary plus |  |
|  | * | Dereference |  |
|  | \& | Address of |  |
|  | sizeof | Size (of the type) of the operand in bytes |  |
|  | new | Dynamic memory allocation |  |
|  | new [] | Dynamic memory allocation of array |  |
|  | delete | Deallocating the memory |  |
|  | delete [] | Deallocating the memory of array |  |
|  | (type) | Cast to a given type |  |
| 4 | ->* | Member pointer selector | left to right |
|  | .* | Member object selector |  |
| 5 | * | Multiplication | left to right |
|  | / | Division |  |
|  | \% | Modulus |  |
| 6 | + | Addition | left to right |
|  | - | Subtraction |  |
| 7 | << | Bitwise shift left | left to right |
|  | >> | Bitwise shift right |  |


| 8 | < | Comparison less-than | left to right |
| :---: | :---: | :---: | :---: |
|  | <= | Comparison less-than-or-equal-to |  |
|  | > | Comparison greater-than |  |
|  | $>=$ | Comparison greater-than-or-equal-to |  |
| 9 | = = | Comparison equal-to | left to right |
|  | eq | Alternate spelling for == |  |
|  | ! = | Comparison not-equal-to |  |
|  | not_eq | Alternate spelling for ! = |  |
| 10 | \& | Bitwise AND | left to right |
|  | bitand | Alternate spelling for \& |  |
| 11 | ^ | Bitwise exclusive OR (XOR) | left to right |
|  | xor | Alternate spelling for ${ }^{\wedge}$ |  |
| 12 | I | Bitwise inclusive (normal) OR | left to right |
|  | bitor | Alternate spelling for \| |  |
| 13 | \&\& | Logical AND | left to right |
|  | and | Alternate spelling for \&\& |  |
| 14 | II | Logical OR | left to right |
|  | or | Alternate spelling for \|| |  |
| 15 | ?: | Ternary conditional (if-then-else) | right to left |
| 16 | $=$ | Assignment operator | right to left |
|  | += | Increment and assign |  |
|  | -= | Decrement and assign |  |
|  | *= | Multiply and assign |  |
|  | /= | Divide and assign |  |
|  | \%= | Modulo and assign |  |
|  | \& $=$ | Bitwise AND and assign |  |
|  | and_eq | Alternate spelling for \&= |  |
|  | $\wedge=$ | Bitwise exclusive or (XOR) and assign |  |
|  | xor_eq | Alternate spelling for ${ }^{\wedge}=$ |  |
|  | I= | Bitwise normal OR and assign |  |
|  | or_eq | Alternate spelling for \|= |  |
|  | <<= | Bitwise shift left and assign |  |
|  | $\gg=$ | Bitwise shift right and assign |  |
| 17 | throw | throw exception |  |
| 18 | , | Sequential evaluation operator | left to right |

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