

# Order of Evaluation in C++17 Solutions

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- C++17 has new rules concerning the evaluation order of expressions.  
What are the advantages of these new rules?
  - The new rules better match the programmer's expectations
  - These rules also help concurrent programs maintain their integrity

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- Briefly describe the changes that have been made to order of evaluation of expressions in C++17
  - In C++17, expressions are evaluated from left to right
  - The main exception is assignment, which is evaluated from right to left

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- In what order are the following expressions evaluated in C++17?

a + b + c;	// a is evaluated first, then b, then c // then (a + b), then (a + b) + c
a + b * c;	// a is evaluated first, then b, then c // then (b * c), then a + (b * c)
a = b = c;	// c is evaluated first, then b, then a
arr[i] = b + c;	// b is evaluated first, then c, then (b + c) // then arr, then i, then arr[i]
cout << func1() << func2();	// func1() is called and returns before func2() is called