

Compiler Design in C – Expressions

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Our presentation is about expressions and how are they processed in a compiler designed in C programming language.

At first, we explain what are expressions, what is their purpose in a program.

Then, we describe temporary variables which are used to temporarily store results of operations, where are they used and what is their main purpose. Also we describe main approaches for the storage of these temporary variables.

Next part is focused on Lvalues and Rvalues. We briefly describe their meaning, what are differences between them, and when it is necessary to use them and how we can use them in a compiler.

Further, we talk about unary operators in compiler in C and about their implementation in a compiler.

In the end, we talk about implementation of binary operators.