

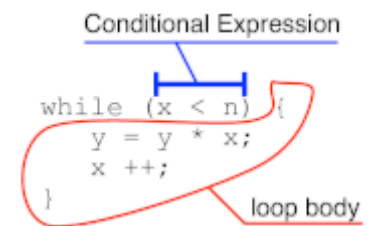
While Loops | Coursera

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While Loops

There are three kinds of loops in C. The first of these is the **while** loop. The syntax for a while loop is shown in this figure:

The keyword **while** is followed by an expression in parenthesis. Much like an if statement, this expression is evaluated to determine whether or not to enter the block of code immediately following it, which is known as the *body* of the loop. If the conditional expression evaluates to true, the execution arrow moves inside the body of the loop and its statements are executed normally. The while loop differs



from the if statement in what happens when the execution arrow reaches the closing curly brace. In the case of a while loop, it jumps up to the top of the loop, immediately before the while keyword. The conditional expression is then re-evaluated, and if it is still true, execution re-enters the loop body. If the conditional expression evaluates to false, then the execution arrow skips to immediately after the closing curly brace of the loop body, and proceeds from there.

The next video shows the execution of a while loop.