

## Loops

## while Loop

A while loop statement repeatedly executes the code block within as long as the condition is  $\mbox{true}$ . The moment the condition becomes  $\mbox{false}$ , the program will exit the loop.

Note that the while loop might not ever run. If the condition is false initially, the code block will be skipped.

```
while (password != 1234) {
   std::cout << "Try again: ";
   std::cin >> password;
}
```

## for Loop

A for loop executes a code block a specific number of times. It has three parts:

- The initialization of a counter
- · The continue condition
- The increment/decrement of the counter

This example prints 0 to 9 on the screen.

```
for (int i = 0; i < 10; i++) {
   std::cout << i << "\n";
}</pre>
```

"i < 10" is checked before each iteration."i++" is executed right after each iteration. The declaration "int i = 0" is lo

In C++, there are many different ways of classifying errors, but they can be boil down to four categories:Compile

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