Common Mistakes

This lesson discusses some of the common mistakes that programmers make while using loops in their code.

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We'll cover the following

Infinite while Loop

Manipulating a for Loop Counter
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Infinite while Loop

The main risk with while loops is producing an *infinite loop*, meaning the condition is always true, and the code runs forever. This will crash your program! For example, let's say you forget a code line that increments the number variable.

To protect yourself from infinite loops, you have to make sure the loop condition will eventually become false.

Manipulating a for Loop Counter

Imagine that you accidentally modify the loop counter in the loop body, just like in the following example.

```
1 for (let i = 1; i <= 5; i++) {
2     console.log(i);</pre>
```



Each time the loop runs, the counter variable is incremented twice: once in the body and once in the final expression after the loop runs. When you're using a for loop, you'll almost always want to omit anything to do with the counter inside the body of your loop. Just leave it in that first line!