C While Loop

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Loops

Loops can execute a block of code as long as a specified condition is reached.

Loops are handy because they save time, reduce errors, and they make code more readable.

While Loop

The `while` loop loops through a block of code as long as a specified condition is `true`:

Syntax

```
while (condition) {
  // code block to be executed
}
```

In the example below, the code in the loop will run, over and over again, as long as a variable (`i`) is less than 5:

Example

```
int i = 0;

while (i < 5) {
  printf("%d\n", i);
  i++;
}
```

Try it Yourself »

Note: Do not forget to increase the variable used in the condition (`i++`), otherwise the loop will never end!

The Do/While Loop

The `do/while` loop is a variant of the `while` loop. This loop will execute the code block once, before checking if the condition is true, then it will repeat the loop as long as the condition is true.

Syntax

```
do {
  // code block to be executed
}
while (condition);
```

The example below uses a `do/while` loop. The loop will always be executed at least once, even if the condition is false, because the code block is executed before the condition is tested:

Example

```
int i = 0;

do {
  printf("%d\n", i);
  i++;
}
while (i < 5);
```

Try it Yourself »

Do not forget to increase the variable used in the condition, otherwise the loop will never end!

C Exercises

Test Yourself With Exercises

Exercise:

Print `i` as long as `i` is less than 6:

```
int i = 1;
       (i < 6) {
  printf("%d\n", i);
      ;
}
```

Submit Answer »

Start the Exercise

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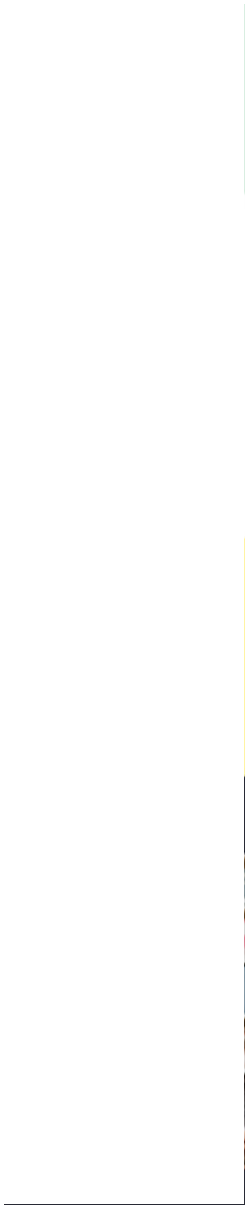

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