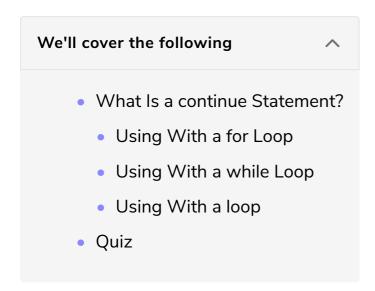
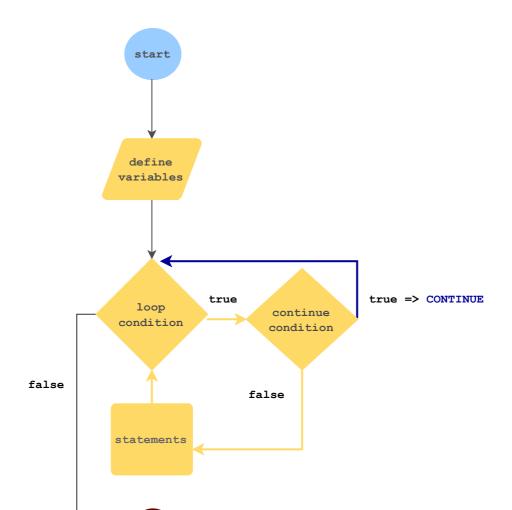
Continue Statement

This lesson will discuss continue statements



What Is a continue Statement?

The **continue** statement, when encountered inside a loop, skips the execution of the rest of the statements in the loop's body for the current iteration and returns the control to the start of the loop.





The following illustration explains the concept:

```
for var in 0..5 {
    if var == 2 {
        println!("Continue statement");
        continue;
    }
    println!("var: {}", var)
}

Output:
1 of 18
```

```
for var in 0..5 {
    if var == 2 {
        println!("Continue statement");
        continue;
    }
    println!("var: {}", var)
}

Output: var:0
```

```
for var in 0..5 {
    if var == 2 {
        println!("Continue statement");
        continue;
    }
    println!("var: {}", var)
}

Output: var:0
4 of 18
```

```
for var in 0..5 {
    if var == 2 {
        println!("Continue statement");
        continue;
    }
    println!("var: {}", var)
}

Output: var:0
    var:1
6 of 18
```

```
for var in 0..5 {
    if var == 2 {
        println!("Continue statement");
        continue;
    }
    println!("var: {}", var)
}

Output: var:0
    var:1
7 of 18
```

```
for var in 0..5 {
    if var == 2 {
        println!("Continue statement");
        continue;
    }
    println!("var: {}", var)
}

Output: var:0
    var:1
    Continue statement
9 of 18
```

```
for var in 0..5 {
    if var == 2 {
        println!("Continue statement");
        continue; control goes to the start of the loop
    }
    println!("var: {}", var)
}

Output: var:0
    var:1
    Continue statement
10 of 18
```

```
for var in 0..5 {
    if var == 2 {
        println!("Continue statement");
        continue;
    }
    println!("var: {}", var)
}

Output: var:0
    var:1
    Continue statement
11 of 18
```

```
for var in 0..5 {
    if var == 2 {
        println!("Continue statement");
        continue;
    }
    println!("var: {}", var)
}

Output: var:0
    var:1
    Continue statement
    var:3
```

```
for var in 0..5 {
    if var == 2 {
        println!("Continue statement");
        continue;
    }
    println!("var: {}", var)
}

Output: var:0
    var:1
    Continue statement
    var:3
14 of 18
```

```
for var in 0..5 {
    if var == 2 {
        println!("Continue statement");
        continue;
    }
    println!("var: {}", var)
}

Output: var:0
    var:1
    Continue statement
```

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```
for var in 0..5 { condition becomes false =>loop breaks
    if var == 2 {
        println!("Continue statement");
        continue;
    }
    println!("var: {}", var)
}

Output: var:0
    var:1
    Continue statement
    var:3
    var:4
17 of 18
```

```
for var in 0..5 {
    if var == 2 {
        println!("Continue statement");
        continue;
    }
    println!("var: {}", var)
}end of program code

Output: var:0
    var:1
    Continue statement
    var:3
    var:4
```

Using With a for Loop

var:3

Below is an example of a continue expression, using a for loop.

- The range defined in the for loop is from 0 to 10 with var variable used for iterating over the loop
- Within the for loop:

- The value of var is printed
- When the value of var is equal to 4, the control goes to the start of the loop
- The loop executes until the upper bound for the defined range is reached

```
fn main() {
   // define a for loop
   for var in 0..10 {
     if var == 4 {
        println!("I encoutered a continue statement");
        continue;
     }
     println!("var: {}", var);
     println!("I did not encounter continue statement");
   }
}
```







Using With a while Loop

Below is an example of continue expression, using a while loop.

- A mutable variable var is defined
- A boolean variable found is defined
- Within the while loop body:
 - The value of var is printed
 - When the value of var is equal to 4, the control goes to the start of the loop.
 - The loop executes until the value of found does not equal true.

```
fn main() {
    // define an integer variable
    let mut var = 1;
    // define a boolean variable
    let mut found = false;
    // define a while loop
    while !found {
        var = var + 1;
        println!("{}", var);

        if var == 4 {
            println!("I encoutered a continue statement");
            continue;
        }
        println!("I did not encounter continue statement");
```









Using With a loop

Below is an example of continue expression, using a loop.

- A mutable variable var is defined
- A boolean variable found is defined
- Within the loop body:
 - The value of var is printed
 - When the value of var is equal to 4, the control goes to the start of the loop
 - The loop executes infinitely

Note: This code widget will give an error, \times , due to limitations of our platform but on the local machine, it will run an infinite loop.

```
fn main() {
   // define an integer variable
   let mut var = 1;
   // define a loop
   loop {
    var = var + 1;
    println!("{}", var);

    if var == 4 {
        println!("I encoutered continue statement");
        continue;
      }
      println!("I did not encounter continue statement");
}
```







. .

Quiz

Test your understanding of continue statement in Rust.

Quick Quiz on Continue Statement.

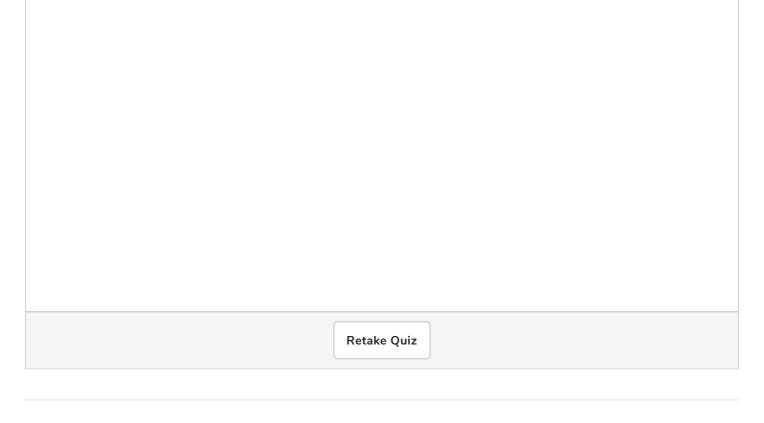


How many times is the statement "I did not encounter continue statement" printed in the code below?

```
fn main() {
    let mut var = 1;
    let mut found = false;
    while !found {
        var = var + 1;
        println!("{}", var);

        if var == 5 {
            println! ("I encoutered a continue statement");
            continue;
        }
        println!("I did not encounter continue statement");

        if var == 6 {
            found = true;
        }
    }
}
```



In the next lesson, you'll learn about nested loops.