

# Loops and Errors

## Types of Loops

Loops can be written as `while` loops, `do-while` loops, and `for` loops.

### `while` Loops

`while` loops iterate until a condition is met.

```
while (a < 10) {  
    a++;  
}
```

### `do-while` Loops

`do-while` loops are `while` loops that initially execute the body once before checking the condition.

```
do {  
    printf("not true!");  
} (while 2 == 3);
```

## for Loops

`for` loops complete a set number of iterations before meeting a condition.

```
for (int i = 0; i <= 10; i++) {  
    printf("Hello!");  
}
```

## Loop Keywords

All loops can utilize keywords like `continue` and `break`. `continue` restarts the loop and `break` breaks out of (or ends) the loop.

## Rewriting Loops

A `for` loop can always be re-written as a `while` loop; most `while` loops can be re-written as a `for` loop.

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