Next, Write the Loop Control

**How many times does
the loop body below execute?**

```
while (0 < num_tries--) {
    // loop body
}
```

The loop body executes **num_tries times**.

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Interact with the Human User

Prompt, read a number, and
check for human error.

```
printf ("Enter a number: ");
if (1 != scanf ("%d", &guess)) {
  printf ("That's not a number!\n");
  return 3;
}
```

Again, **return** terminates the function.

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Give Feedback for the Human's Guess

Give feedback
◦ based on the difference
◦ between the guess and the number.

```
    difference = guess - number;
    switch (difference) {
        ...
    }
} // end of the while loop
```

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If Human Guesses Correctly, Return a Win

Difference of 0 means a correct guess.

```
    case 0:
        printf ("You win!\n");
        return 1;
```

Again, **return** terminates the function.
So **this case needs no break**.

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