Each Returned Value Can Have a Different Meaning

What does the return value mean?

What are the possible outcomes?
- bad arguments (ex: -42 guesses allowed) → **2**
- human types something odd → **3**
- human wins the game → **1**
- human loses the game → **0**

Sometimes, we may identify other possibilities
- when we write the code,
- or if we need to change the code later.

Steps Needed for Our Guessing Game

How can we approach the problem?

1. Check argument values.
2. For each guess allowed,
   - prompt human for a guess,
   - read guess from keyboard, and
   - give feedback based on guess (including winning).
3. If human runs out of guesses, they lose.

Declare Variables Based on Our Approach

First, we need variables…

```
int32_t guessing_game
 (int32_t number, int32_t num_tries)
{
    int32_t guess;  // human's guess

    int32_t difference;
              // guess minus number
```


Start by Checking the Arguments

First step in the code is to check arguments:
- **number** must be in **[1,10]**, and
- **num_tries** must be at least **1**.

```
if (1 > number || 10 < number ||
    1 > num_tries) {
    return 2;
}
```

Recall that **return** terminates the function.

