The Client or Test Program

Open your CodeSpace IDE, (or, you can do this in Replit if you like), and create a folder. Add a file named client.cpp. Add the usual #include statements and an empty main(). In the main() function you need to:

- 1. Call each of your functions with some known input.
- Compare the value returned (this is called the actual value), with the value that should have been returned (this is called the expected value).
- 3. Print a message indicating whether you got it right or wrong.

Here's some code, which calls each function, compares it to the expected value, and then uses the **conditional operator** to print PASS or FAIL. Note that each expression needs to be enclosed in parentheses:

When you compile with make client, you'll get the error message:

```
client.cpp:7:14: error: 'firstDigit' was not declared in this
scope
```

An **undeclared** error message is a **compiler** syntax error whic means you are missing a prototype or you are calling a function incorrectly.

Basically, the compiler is saying "I don't know what the word **firstDigit** means. It's up to us to tell it what that means. Which leads us to the interface file.



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