Unit testing of the searchAndBuyProduct function

The function combines the usage of four other products, login, display\_csv\_as\_table, display\_filtered\_table and checkoutAndPayment. So the user logs in, then looks at products, then finally checks out.

The function takes no input except input from the user through the terminal. The user writes what products to search for and decides wether it is done or not.

The input domain can be divided into four equivalence classes (EC):

1. User only looks at all products
2. User does a specific search
3. User is ready to shop immediately
4. User is not ready to shop immediately

For each EC, we need to test at least one input.

This leads to the following test requirements:

R1. User looks at all products, display\_csv\_as\_table function is called.

R2. User does a search, display\_filtered\_table funciton is called.

R3. User is done immediately, one of those functions are called once and the other zero times.

R4. User is not done immediately, the amount of times one of those functions is called goes up for each time the user is not done.

R5. We also need to test that the functions login and checkoutAndPayment are called, but they are called every time regardless of user input.

Since this function simply uses other functions, we have replaced them with stubs and perform the test by checking if the stubs were called the correct amount of times and with correct arguments.

Using these guidelines, the tests in the test specification file was created, which tests all equivalence classes and tests that the function calls are correct.