Unit testing of the checkoutAndPayment function

The objective of the checkoutAndPayment function is to manage the shopping, checkout and logout processes for the main program. The function initially prints out all available products and allows the user to select between three options: to check the cart), to logout or to add an item to the cart. Depending on the selected option, different operations is made and appropriate functions are called.

The checkoutAndPayment function does not return anything and is given input carefully checked by other functions. Therefore, the focus of the unittesting of this function has been to test all functionalities and possible cases occurring inside the function. These cases were divided into the following equivalence classes (EC):

1. The printout of the products
   1. One product
   2. Multiple products
2. The check cart option (c)
   1. Empty cart
   2. Nonempty cart
3. The logout option (l)
   1. Empty cart
   2. Nonempty cart
4. The add item option (valid integer)
   1. Item in stock
   2. Item out of stock
5. Invalid options (invalid integer or letter)

Several test will be constructed for each case of these equivalence classes using several stub functions. To see the different test cases, their expected outcomes and the results, see the document “checkoutAndPayment function testing document”.