Test Practice Part 1

Don’t code these! Instead write down somewhere (a Google doc, notepad, or write on paper) what test cases you can come up with.

int GetSign(int num)

Returns -1 if the number passed in is negative
Returns 0 if the number passed in is 0
Returns 1 if the number passed in is positive

Test Cases

What we need to test	Expect to get back
-1	-1
-2	-1
0	0
1	1
2	1

bool IsRangeVersion1(int num)

This method returns true if the number passed in (num) is greater than or equal to 0, and less than or equal to 10. (That is, true if it’s between 0 and 10 inclusive).

What we need to test	Expect to get back
0	true
-1	false
10	true
11	false
5	true

bool IsRangeVersion2(int num)

This method returns true if a number is in the range of 10 inclusive and 20 exclusive.
List what numbers you should test and what you expect to get back.

What we need to test	Expect to get back
9	false
10	true
19	true
20	false
15	true

public static decimal CalculateCoupon(decimal purchase)

This function takes as a parameter the amount purchased, and calculates a coupon the customer should receive. When a customer purchases at least $10 up to and including $19.99, the customer will get a $2 coupon back. When a customer purchases $20 or more, the customer will get a $3 coupon back. If the customer purchases under $10, then no coupon will be given.

Thus, if the parameter is between 10.00 and 19.99 inclusive, the function will return 2.00.
If the parameter is 20.00 or higher, the function will return 3.00.
If the parameter is under 10.00, then the function will return 0.00.
Note: This function does not deal with tax calculations.

What we need to test	Expect to get back
9.99	0.00
10.00	2.00
19.99	2.00

20.00	3.00
20.01	3.00

100.00 3.00

test inside values?

15.00 - 2.00

0.01 - 0.00