Quiz 1

1. (10 points) What is the output of the following statements:

(a) int num1 = 14;
    if ( num1 < 20 )
        System.out.println("Under");
    else
        System.out.println("Over");
    System.out.println("the limit.");

(b) int num2 = 20;
    if ( --num2 <= 20 )
        System.out.println("Under");
    else
    {
        System.out.println("Over");
        System.out.println("the limit.");
    }

(a) **Under the limit.**

(b) **Under**

2. Evaluate whether the following are true or false:

**Hint 1:** Arithmetic operators (like *,+,−,/) have higher precedence than other operators (like <,>,>=,==,&&,||)

**Hint 2:** Relational operators (like <,>,>=,==) have higher precedence than logical operators (like &&,||)

**Hint 3:** The parenthesis operator has higher precedence than all the previously mentioned operators.

(a) 1+2 > 4-2 && 12 < 23

(a) **T**

(b) 1+2 > 4-2 || 12 < 23

(b) **T**
(c) \(1+2 > 4-2 \land 54 > 76\)

(c) \(\text{F}\)

(d) \(1+2 > 4-2 \lor 54 > 76\)

(d) \(\text{T}\)

(e) \((1==1) \lor (5 - 7 + 20 < 0)\)

(e) \(\text{T}\)