Operators Associativity and Precedence Assignment

1. Use operator associativity, evaluate the following expressions and predict the output

```
a. x = 34 + 12/4 - 56

b. 12 + 3 - 4 / 2 < 3 + 1

c. (2 + (3 + 2)) * 10

d. 34 + 12/4 - 45

A. a.-19

b. FALSE

c. 70

d. -8
```

- 2. Rewrite the following expressions with improved readability
 - a. age < 18 && height < 48 || age > 60 && height > 72
 - b. char name value
 - c. char \$name
- A. a. (age<18 && height < 48) || (age>60 && height >72)
 - b. char name=
 - 3. Predict the value of a after each statement.

```
int main(void)
{
   int i = 10;
   char a = 'd';
   a += 10;
   a *= 5;
   a /= 4;
   a %= 2;
   a *= a + i;
   return 0;
}
```

```
A. I=10.
a= d, a=100
a=n a=110
a= nil a=550
a= nil a=137
a=nil a=1
a=nil a=1
4. Consider a = 12, b = 3, predict the output of the following .
a. (a>100) && (b<10)</li>
b. (a==4) && (b==2)
c. (a==11) && (a++)
```

- A. a. FALSE
 - b. FALSE
 - c. FALSE
- 5. Consider a = 10, b = 11, predict the output of the following.
 - a. (a>10) || (b<10)
 - b. a || 12.12
 - c. a || b
 - d. !(a > 5)
- A. A. True
 - b. False
 - c. False
 - d. False
- 6. Consider int age = 10, height = 45, year = 2000; Predict the output of the following.
 - a. (age < 12 && height < 48) || (age > 65 && height > 72)
 - b. (year % 4 == 0 && year % 100 != 0) || (year % 400 == 0);
 - A. a. True
 - b.True