Started on	Thursday, 28 December 2023, 9:04 AM
State	Finished
Completed on	Thursday, 28 December 2023, 10:02 AM
Time taken	58 mins 47 secs

Question **1**

Correct

Marked out of 25.00

Pooja just got a new cellphone. She carries it everywhere, even to her morning college classes.

She normally answers calls, except in the morning. In the morning she answers only if her Mom calls. However she never answers any calls when she is sleeping.

Write a program that takes in 3 boolean inputs:

- the first boolean is true if it is morning and false if it is not morning
- the second boolean is true if her mom is calling and false if her mom is not calling
- the third boolean is true if she is sleeping and false if she is not sleeping

You have to print True if Pooja will answer the call and False if she will not answer it.

Use the System.out.println() statement for printing.

Example Input: true false false

Output: False

Example Input: true true false

Output: True

Example Input: false true true

Output: False

For example:

Input	Result
true false false	False
true true false	True
false true true	False

Answer: (penalty regime: 0 %)

```
import java.util.*;
public class Call
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);

        boolean mrng = sc.nextBoolean();
        boolean mom = sc.nextBoolean();
        boolean sleep = sc.nextBoolean();

        if(mrng==true && mom==true && sleep==false)
        {
            System.out.println("True");
        }
        else
        {
            System.out.println("False");
        }

    }
}
```

	Input	Expected	Got	
✔	true false false	False	False	✔
✔	true true false	True	True	✔

	Input	Expected	Got	
✔	`false true true`	`False`	`False`	✔

Passed all tests! ✔

Question **2**

Correct

Marked out of 25.00

You and your friend are movie fans and want to predict if the movie is going to be a hit!

The movie's success formula depends on 2 parameters:

· the acting power of the actor (range 0 to 10)

· the critic's rating of the movie (range 0 to 10)

The movie is a hit if the acting power is excellent (more than 8) or the rating is excellent (more than 8). This holds true except if either the acting power is poor (less than 2) or rating is poor (less than 2), then the movie is a flop. Otherwise the movie is average.

Write a program that takes 2 integers:

· the first integer is the acting power

· second integer is the critic's rating.

You have to print Yes if the movie is a hit, Maybe if the movie is average and No if the movie is flop.

Example input: 9 5

Output: Yes

Example input: 1 9

Output: No

Example input: 6 4

Output: Maybe

For example:

Input	Result
9 5	Yes
1 9	No
6 4	Maybe

Answer: (penalty regime: 0 %)

```
import java.util.*;
public class Movie
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);

        int a = sc.nextInt();
        int c = sc.nextInt();

        if(((a>8)||(c>8)) && ((a>=2)&&(c>=2)))
        {
            System.out.println("Yes");
        }
        else if(((a<2)||(c<2)))
        {
            System.out.println("No");
        }
        else
        {
            System.out.println("Maybe");
        }
    }
}
```

	Input	Expected	Got	
✔	9 5	Yes	Yes	✔
✔	1 9	No	No	✔
✔	6 4	Maybe	Maybe	✔

Passed all tests! ✔

Question **3**

Correct

Marked out of 25.00

Dr. CooCoo has a new obsession: crazy numbers. A number is crazy if it is either a multiple of 13 or if it is one more than a multiple of 13.

Write a program that takes an integer and prints Crazy if a number is crazy. Otherwise it prints Not Crazy.

Use the System.out.println() statement for printing.

Example Input: 13

Output: Crazy

Example Input: 27

Output: Crazy

Example Input: 42

Output: Not Crazy

For example:

Input	Result
13	Crazy
27	Crazy
42	Not Crazy

Answer: (penalty regime: 0 %)

```
import java.util.*;
public class Crazy
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);

        int num = sc.nextInt();

        if((num%13==0) || (num%13==1))
        {
            System.out.println("Crazy");
        }
        else
        {
            System.out.println("Not Crazy");
        }

    }
}
```

	Input	Expected	Got	
✔	13	Crazy	Crazy	✔
✔	27	Crazy	Crazy	✔
✔	42	Not Crazy	Not Crazy	✔

Passed all tests! ✔

Question **4**

Correct

Marked out of 25.00

Mr. Jack is now playing some dice games. In this game, 2 dice are rolled.

The score is calculated by summing the value on the 2 dice. However, when playing in special mode, if the number on both dice are equal, then one value is incremented, wrapping around to 1 if its value was 6.

Write a program to calculate the score. The inputs are 2 integers and 1 boolean. Each integer has the value of one of the dice. The boolean is true if the special mode is being played, otherwise it is false. You have to print the score depending on the values.

Use the System.out.println() statement for printing.

Example Input: 4 3 false

Output: 7

Example Input: 4 4 false

Output: 8

Example Input: 4 4 true

Output: 9

Example Input: 6 6 true

Output: 7

For example:

Input	Result
4 3 false	7
4 4 false	8
4 4 true	9
6 6 true	7

Answer: (penalty regime: 0 %)

```
import java.util.*;
public class Dice
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);

        int n1 = sc.nextInt();
        int n2 = sc.nextInt();
        boolean s = sc.nextBoolean();

        if((n1!=n2) || ((s==false) && (n1==n2)))
        {
            System.out.println(n1+n2);
        }
        else if((s==true) && (n1==n2) && (n1!=6))
        {
            System.out.println(n1+n2+1);
        }
        else
        {
            System.out.println(n1+1);
        }

    }
}
```

	Input	Expected	Got	
✔	4 3 false	7	7	✔
✔	4 4 false	8	8	✔
✔	4 4 true	9	9	✔
✔	6 6 true	7	7	✔

Passed all tests! ✔