CS23333-Object Oriented Programming Using Java-2023

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Status	Finished
Started	Sunday, 6 October 2024, 12:28 AM
Completed	Sunday, 6 October 2024, 12:37 AM
Duration	9 mins 3 secs

Question **1**

Correct

Marked out of 5.00

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Consider the following sequence:

1st term: 1

2nd term: 1 2 1

3rd term: 1 2 1 3 1 2 1

4th term: 1 2 1 3 1 2 1 4 1 2 1 3 1 2 1

And so on. Write a program that takes as parameter an integer n and prints the nth terms of this sequence.

Example Input:

1

Output:

1

Example Input:

4

Output:

1 2 1 3 1 2 1 4 1 2 1 3 1 2 1

For example:

Input	Result
1	1
2	1 2 1
3	1 2 1 3 1 2 1
4	1 2 1 3 1 2 1 4 1 2 1 3 1 2 1

Answer: (penalty regime: 0 %)

```
import java.util.Scanner;
public class SequenceGenerator{
    public static void main(String[]args){
        Scanner S = new Scanner(System.in);
        int n = S.nextInt();
        String term = generateTerm(n);
        System.out.print(term);
    }
    private static String generateTerm(int n){
        if (n==1){
            return "1";
        }
        String prevTerm = generateTerm (n-1);
        StringBuilder currentTerm = new StringBuilder(prevTerm);
        currentTerm.append(" " + n + " ");
        currentTerm.append(prevTerm);
        return currentTerm.toString();
    }
}
```

	Input	Expected	Got	
	1	1	1	
	2	1 2 1	1 2 1	
	3	1 2 1 3 1 2 1	1 2 1 3 1 2 1	
	4	1 2 1 3 1 2 1 4 1 2 1 3 1 2 1	1 2 1 3 1 2 1 4 1 2 1 3 1 2 1	

Passed all tests!

Question **2**

Correct

Marked out of 5.00

Flag question

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 main{
    public static void main(String[]arg){
        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();
        int r=sc.nextInt();
        if((a>8|| r>8)&&(a>2&&r>2)){
            System.out.println("Yes");
        }
        else if(a<2 || r<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 5.00

Flag question

You have recently seen a motivational sports movie and want to start exercising regularly. Your coach tells you that it is important to get up early in the morning to exercise. She sets up a schedule for you:

On weekdays (Monday - Friday), you have to get up at 5:00. On weekends (Saturday & Sunday), you can wake up at 6:00. However, if you are on vacation, then you can get up at 7:00 on weekdays and 9:00 on weekends.

Write a program to print the time you should get up.

Input Format

Input containing an integer and a boolean value.

The integer tells you the day it is (1-Sunday, 2-Monday, 3-Tuesday, 4-Wednesday, 5-Thursday, 6-Friday, 7-Saturday). The boolean is true if you are on vacation and false if you're not on vacation.

You have to print the time you should get up.

Example Input:

1 false

Output:

6:00

Example Input:

5 false

Output:

5:00

Example Input:

1 true

Output:

9:00

For example:

Input	Result

1 false	6:00
5 false	5:00
1 true	9:00

Answer: (penalty regime: 0 %)

```java
import java.util.Scanner;

public class WakeUpSchedule {

    public static String getWakeUpTime(int day, boolean onVacation) {
        if (onVacation) {
            // If on vacation, adjust wake-up times
            if (day == 1 || day == 7) { // Sunday or Saturday
                return "9:00";
            } else { // Monday to Friday
                return "7:00";
            }
        } else {
            // Normal wake-up times
            switch (day) {
                case 1: // Sunday
                case 7: // Saturday
                    return "6:00";
                case 2: // Monday
                case 3: // Tuesday
                case 4: // Wednesday
                case 5: // Thursday
                case 6: // Friday
                    return "5:00";
                default:
                    return "Invalid day"; // Handle invalid input
            }
        }
    }

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        // Input day (1-7) and vacation status

        int day = scanner.nextInt();

        boolean onVacation = scanner.nextBoolean();

        // Get and print the wake-up time
        String wakeUpTime = getWakeUpTime(day, onVacation);
        System.out.println(wakeUpTime);

        scanner.close();
    }
}
```

	Input	Expected	Got	
	1 false	6:00	6:00	
	5 false	5:00	5:00	
	1 true	9:00	9:00	

Passed all tests!

Finish review