Question **1**Correct

Marked out of 5.00

Consider a sequence of the form 0, 1, 1, 2, 4, 7, 13, 24, 44, 81, 149...

Write a method program which takes as parameter an integer n and prints the nth term of the above sequence. The nth term will fit in an integer value.

Example Input:

5

Output:

4

Example Input:

8

Output:

24

Example Input:

11

Output:

149

For example:

Input	Result
5	4
8	24
11	149

Answer: (penalty regime: 0 %)

```
1 v import java.util.Scanner;
 2 v public class SeqCal{
 3 ▼
        public static void main(String args[]){
 4
        Scanner obj=new Scanner(System.in);
 5
        int n=obj.nextInt();
 6
        int tn=0;
 7 ,
        if(n==1){
 8
            System.out.println(0);
 9 ,
        }else if(n==2 || n==3){
10
             System.out.println(1);
11 1
        }else{
12
            int t0=0, t1=1, t2=1;
            for (int i=3;i<n;i++){</pre>
13 1
14
                 tn=t0+t1+t2;
15
                 t0=t1;
16
                 t1=t2;
17
                 t2=tn;
18
19
        System.out.println(tn);
20
        }
21
        }
22
   }
```

	Input	Expected	Got	
~	5	4	4	~
~	8	24	24	~
~	11	149	149	~

Passed all tests! ✓

```
Question 2
Correct
Marked out of 5.00
```

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:

121312141213121

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 %)

```
1 | import java.util.ArrayList;
   import java.util.Scanner;
 2
 3 v public class Main{
        public static void main(String args[]){
 4 *
 5
            Scanner sc=new Scanner (System.in);
 6
            int n=sc.nextInt();
 7
            ArrayList<Integer> sequence= new ArrayList<>();
 8
            sequence.add(1);
 9 1
            for(int i=2;i<=n;i++){</pre>
10
                ArrayList<Integer> temp=new ArrayList<>(sequence);
11
                 sequence.add(i);
12
                 sequence.addAll(temp);
13
14
        for (int num : sequence){
15 🔻
            System.out.print(num + " ");
16
17
        }
18
        sc.close();
19
        }
20
    }
21
```

	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	~

Question **3**Correct
Marked out of 5.00

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 %)

```
1 | import java.util.Scanner;
 2 v public class Main{
3 ₹
        public static void main(String args[]){
 4
            Scanner sc=new Scanner(System.in);
 5
            int day=sc.nextInt();
 6
            boolean isVacation=sc.nextBoolean();
 7
            String wakeUpTime="";
 8 1
            if(isVacation){
 9,
                 if(day==1||day==7){
10
                     wakeUpTime="9:00";
11 v
                 }else{
12
                     wakeUpTime="7:00";
13
                 }
14 🔻
            }else{
15 🔻
                 if(day==1||day==7){
16
                     wakeUpTime="6:00";
17 1
                 }else{
18
                     wakeUpTime="5:00";
19
                 }
20
            System.out.println(wakeUpTime);
21
22
            sc.close();
23
24 }
```

	Input	Expected	Got	
~	1 false	6:00	6:00	~
~	5 false	5:00	5:00	~
~	1 true	9:00	9:00	~
Passed all tests! ✓				

■ Lab-02-MCQ

Jump to...

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Lab-03-MCQ ►