REC-CIS

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# CS23333-Object Oriented Programming Using Java-2023

Dashboard / My courses / CS23333-OOPUJ-2023 / Lab-02-Flow Control Statements / Lab-02-Logic Building

## Quiz navigation



Show one page at a time

Finish review



Question 1
Correct
Marked out of 5.00
Flag question

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 import java.util.Scanner;
         class fibo3{
                int a;
int b;
                int c:
                fibo3(int a,int b,int c){
                      this.a = a;
this.b = b;
11
12
                      this.c = c;
               int nth(int x){
   if (x == 1){
     return 0;
13
14
15
16
17
                       else if(x == 2 && x == 3)
                       return 1;
else{
   int temp1,temp2,temp;
19
                              int temp1,temp2,temp;
int count = 4;
while(x >= count){
  temp = this.a+this.b+this.c;
  temp1 = this.c;
  this.c = temp;
  temp2 = this.b;
  this.b = temp1;
  this.a = temp2;
  count++;
}
21
23
24
26
27
28
29
30
31
                               return this.c;
32
33
34
35
         public class Main{
36
37
               public static void main(String[] args){
    Scanner s = new Scanner(System.in);
                       int t = s.nextInt();
fibo3 r = new fibo3(0,1,1);
System.out.print(r.nth(t));
38
39
40
41
42 }
```

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

Passed all tests!

Question 2
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 %)

```
1 | import java.util.Scanner;
        public class Main{
   public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
}
                    int day=sc.nextInt();
                    boolean v=sc.nextBoolean();
                    String t;
                    if(v){
                         if(day>1&&day<7)
t="7:00";
10
                         else
t="9:00";
11
12
13
14
                    else{
15
16
                         if(day>1&&day<7)
t="5:00";
17
18
19
20
                    System.out.println(t);
21
22
23
```

Passed all tests!

Question **3**Correct
Marked out of 5.00

Flag question

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

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!			
	1 2 3 4	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	1 1 1 1 1 2 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

**‡** 

Finish review

■ Lab-02-MCQ

Input Result

Jump to...

Lab-03-MCQ ►