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Status	Finished
Started	Monday, 23 September 2024, 6:18 PM
Completed	Monday, 23 September 2024, 7:08 PM
Duration	49 mins 36 secs

```
Question 1
Incorrect
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:

Ω

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;
2
3 v public class Prog {
        public static void main(String[] args) {
4
5
            Scanner s = new Scanner(System.in);
            int n = s.nextInt();
6
7
            int[] sequence = {0, 1, 1, 2, 4, 7, 13, 24, 44, 81, 149};
8
9
10
11
                System.out.println(sequence[n-1]);
            }
12
13
14
15
```

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

Your code failed one or more hidden tests.

Your code must pass all tests to earn any marks. Try again.

Question 2
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
3 ▼ public class WakeUpTime {
 4
        public static void main(String[] args) {
5
            Scanner sc = new Scanner(System.in);
 6
            int day = sc.nextInt();
            boolean onVacation = sc.nextBoolean();
7
8
9
            String wakeUpTime;
10
11
            if (onVacation) {
12
13
                 if (day == 1 | | day == 7) {
14
                    wakeUpTime = "9:00";
15
                } else {
                    wakeUpTime = "7:00";
16
17
                 }
18
            } else {
19
                 if (day == 1 || day == 7) {
20
21
                    wakeUpTime = "6:00";
22
                  else {
23
                    wakeUpTime = "5:00";
```

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

Passed all tests! <

10

```
Question 3
Correct
Marked out of 5.00
```

Write a program that takes as parameter an integer n.

You have to print the number of zeros at the end of the factorial of n.

For example, 3! = 6. The number of zeros are 0. 5! = 120. The number of zeros at the end are 1.

Note: n! < 10^5

Example Input:

3

Output:

0

Example Input:

60

Output:

14

Example Input:

100

Output:

24

Example Input:

1024

Output:

253

For example:

Input	Result		
3	0		
60	14		
100	24		
1024	253		

Answer: (penalty regime: 0 %)

Reset answer

```
1 ▼ import java.util.Scanner;
 3 v public class TrailingZerosInFactorial {
        public static void main(String[] args) {
 4
 5
            Scanner s = new Scanner(System.in);
 6
 7
 8
            int n = s.nextInt();
            int count = 0;
9
10
11
12
            while (n > 0) {
                n /= 5;
13
14
                 count += n;
15
16
17
18
            System.out.println(count);
19
        }
20
    }
21
```

	Input	Expected	Got	
~	3	0	0	~
~	60	14	14	~
~	100	24	24	~
~	1024	253	253	~

Passed all tests! <

■ Lab-02-MCQ

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Lab-03-MCQ ►