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Status	Finished
Started	Thursday, 10 October 2024, 11:59 AM
Completed	Thursday, 10 October 2024, 12:23 PM
Duration	24 mins 29 secs

```
Question 1
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 %)

	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 ${\bf 2}$

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
```

```
import java.util.*;

public class Zeros{

  public static int countz (int n) {

        int count=0;

        for(int i=5;n/i>=1;i*=5) {

            count+=n/i;
        }

        return count;

}
```

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

Passed all tests! <

```
Question 3
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:

Δ

Example Input:

8

Output:

24

Example Input:

11

Output:

149

For example:

Input	Result	
5	4	
8	24	
11	149	

Answer: (penalty regime: 0 %)

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

Passed all tests! ✓

■ Lab-02-MCQ

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Lab-03-MCQ ►