

### How to Attempt?

**nthFibonacci** : Write a function to return the nth number in the fibonacci series.  
The value of N will be passed to the function as input parameter.

**NOTE:** Fibonacci series looks like -

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, ..... and so on.

i.e. Fibonacci series starts with 0 and 1, and continues generating the next number as the sum of the previous two numbers.

- first Fibonacci number is 0.
- second Fibonacci number is 1,
- third Fibonacci number is 1,
- fourth Fibonacci number is 2,
- fifth Fibonacci number is 3,
- sixth Fibonacci number is 5,
- seventh Fibonacci number is 8, and so on.

```
1 import java.util.*;
2 import java.util.*;
3
4 // Read only region start
5 class UserMainCode
6 {
7
8     public long nthFibonacci(int input1){
9         // Read only region end
10        // Write code here...
11        int val1=0, val2=1, temp=0;
12        for(int i=3; i<=input1; i++)
13        {
14            temp=val1+val2;
15            val1=val2;
16            val2=temp;
17        }
18        return temp;
19    }
20 }
```

1. Program

### Question 1

#### How to Attempt?

#### FACTORIAL of a number

In mathematics, the factorial of a non-negative integer  $n$ , denoted by  $n!$ , is the product of all positive integers less than or equal to  $n$ . For example,

$$5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$$

$$4! = 4 \times 3 \times 2 \times 1 = 24$$

$$9! = 9 \times 8 \times 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 362880$$

Write a program to find the factorial of a given number.

The given number will be passed to the function as an input parameter of type `int`.

The function is expected to calculate the factorial of the given number and return it as an `int` type.

#### Assumptions for this program:

The given input number will always be greater than or equal to 1.

Due to the range supported by `int`, the input numbers will range from 1 to 12.

Revisit Later

Use Custom Input

Code Execution

6/6 - Graded Test

TC1

TC3

TC4

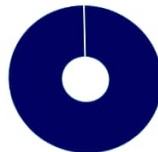
TC5

TC6

TC8

Finish Test

Remaining Time: 00:59:31



Your Test Summary

1 Total Questions

- Attempted: 1/1
- Marked for Revisit: 0/1
- Unattempted: 0/1

### Section Summary

#	SECTION NAME	STATUS
1.	Program Untimed Section	1 Total: 1 Questions