

1. Program

Question 1

Revisit Later

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.

Attempted: 1/1

JAVA7

Compiler: Java - 1.7

```
1 import java.io.*;
2 import java.util.*;
3
4 // Read only region start
5 class UserMainCode
6 {
7
8     public int nFactorial(int input){
9         // Read only region end
10         int fact=1;
11         for(int i=1;i<=input;i++)
12         {
13             fact=fact*i;
14         }
15         return fact;
16     }
17 }
18
```

☐ Use Custom Input

ⓘ

Compile and Test

Submit Code

1. Program

0

1

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Attempted: 1/1

0/5 - Sample Test Cases Failed

Question 1

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TC10

CODE EXECUTION DETAILS

Time: 236 ms

Memory: 103812 kb

TEST CASE INFORMATION

Input

10

Expected Output

3628800

Actual Output

3628800

>_ CONSOLE OUTPUT

STANDARD ERROR/WARNING

None

1. Program

1

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Use Custom

Code Execution

0/6 - Graded

TC3

TC4

TC5

TC6

TC8

TC11

Mercer

mettl

Sai sushmitha J
LP_Practice_nfactorial / Saved: 30 seconds ago

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Finish Test

Remaining Time: 01:02:58

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	<div>1</div> Total: 1 Questions

Yes, End test!

No, Back to Test