1. Program

1

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 x 4 x 3 x 2 x 1 = 120
4! = 4 x 3 x 2 x 1 = 24
9! = 9 x 8 x 7 x 6 x 5 x 4 x 3 x 2 x 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.

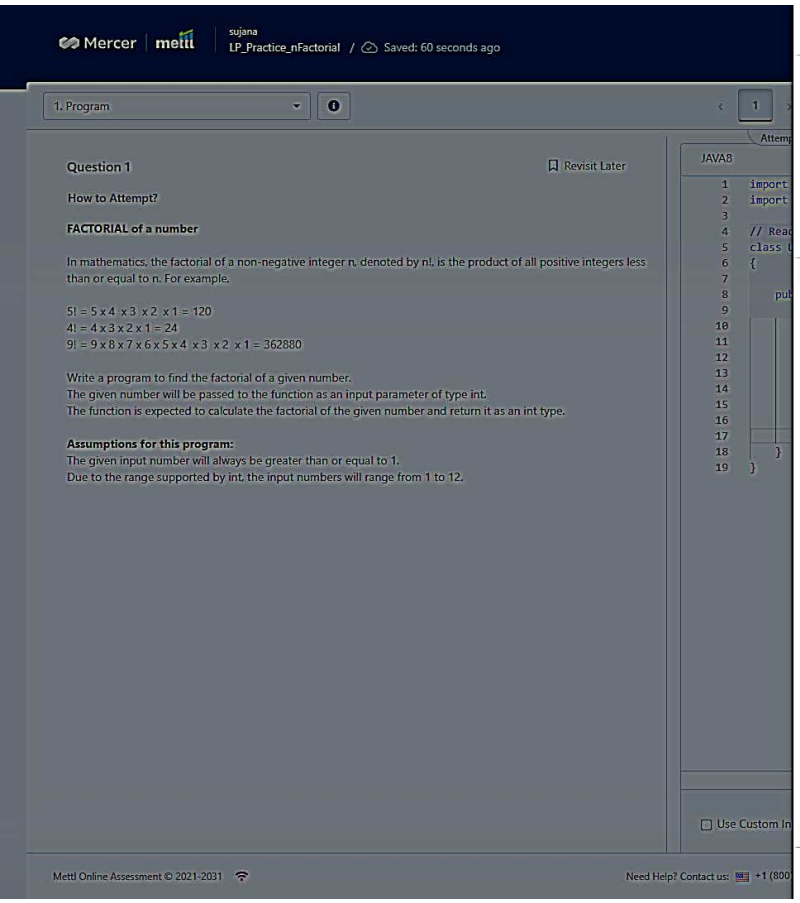
Attempted: 1/1

JAVA8 | Compiler: Java - 1.8

```
1  import java.io.*;
2  import  java.util.*;
3
4  // Read only region start
5  class UserMainCode
6  {
7
8      public int nFactorial(int input1){
9          // Read only region end
10         // Write code here..
11         int ans=1;
12         while (input1>=1)
13         {
14             ans*=input1;
15             input1--;
16         }
17         return ans;
18     }
19 }
```

Use Custom Input

Compile and Test | Submit Code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LP_Practice_nFactorial / Saved: 60 seconds ago
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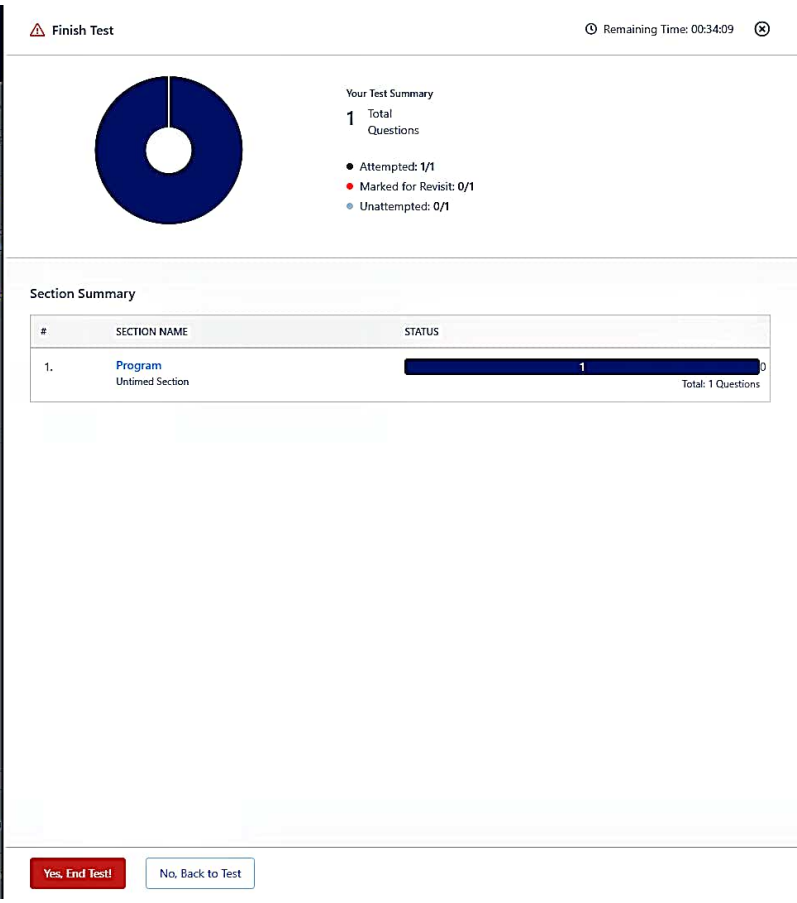
Finish Test
Remaining Time: 00:34:09
Your Test Summary
1 Total Questions
Attempted: 1/1
Marked for Revisit: 0/1
Unattempted: 0/1
Section Summary
SECTION NAME STATUS
1. Program
Untimed Section
1
0
Total: 1 Questions
Yes, End Test!
No, Back to Test