Challenge 1: Find The Factorial

This lesson will test your knowledge of loops.

We'll cover the following

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- Problem Statement
 - Input
 - Output
 - Sample Input
 - Sample Output
- Coding Exercise

Problem Statement

The task is to print the factorial of a number n.

The factorial of a number n is the product of all numbers from 1 to n.

$$factorial(n) = n * (n - 1) * (n - 2) * ... * 1$$

```
factorial (3)= 3 * 2 * 1
factorial(3) = 6
```

Note: Assume that the negative numbers may be passed in as argument and that the factorial of a negative number should be set as zero.

Input

Integer

Output

```
Integer
```

Sample Input

3

Sample Output

6

Coding Exercise

Write your code below. It is recommended that you try solving the exercise yourself before viewing the solution.

Note: There is a **test** function given in the code for testing purposes. Do not modify it.

Good luck! 8

```
fn test(n:132) {
// Write code here!
}

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{ statement;
}
```

Let's move on to the detailed solution of the above problem in the next lesson.