2803. Factorial Generator Premium

Easy

Write a generator function that takes an integer `n` as an argument and returns a generator object which yields the **factorial sequence**.

The **factorial sequence** is defined by the relation `n! = n * (n-1) * (n-2) * ... * 2 * 1`.

The factorial of 0 is defined as 1.

Example 1:

> **Input:** n = 5
> **Output:** [1,2,6,24,120]
> **Explanation:**
> const gen = factorial(5)
> gen.next().value // 1
> gen.next().value // 2
> gen.next().value // 6
> gen.next().value // 24
> gen.next().value // 120

Example 2:

> **Input:** n = 2
> **Output:** [1,2]
> **Explanation:**
> const gen = factorial(2)
> gen.next().value // 1
> gen.next().value // 2

Example 3:

> **Input:** n = 0
> **Output:** [1]
> **Explanation:**
> const gen = factorial(0)
> gen.next().value // 1

Constraints:

- `0 <= n <= 18`

Seen this question in a real interview before? 1/5

Yes No

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Discussion (0)