

Problem 2648: Generate Fibonacci Sequence

Problem Information

Difficulty: Easy

Acceptance Rate: 83.54%

Paid Only: No

Problem Description

Write a generator function that returns a generator object which yields the **fibonacci sequence**.

The **fibonacci sequence** is defined by the relation ` $X_n = X_{n-1} + X_{n-2}$ `.

The first few numbers of the series are `0, 1, 1, 2, 3, 5, 8, 13`.

Example 1:

```
**Input:** callCount = 5 **Output:** [0,1,1,2,3] **Explanation:** const gen = fibGenerator();
gen.next().value; // 0 gen.next().value; // 1 gen.next().value; // 1 gen.next().value; // 2
gen.next().value; // 3
```

Example 2:

```
**Input:** callCount = 0 **Output:** [] **Explanation:** gen.next() is never called so nothing is
outputted
```

Constraints:

* `0 <= callCount <= 50`

Code Snippets

JavaScript:

```
/**  
 * @return {Generator<number>}  
 */  
var fibGenerator = function*() {  
  
};  
  
/**  
 * const gen = fibGenerator();  
 * gen.next().value; // 0  
 * gen.next().value; // 1  
 */
```

TypeScript:

```
function* fibGenerator(): Generator<number, any, number> {  
  
};  
  
/**  
 * const gen = fibGenerator();  
 * gen.next().value; // 0  
 * gen.next().value; // 1  
 */
```