

# 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
 */
```