

Problem 2666: Allow One Function Call

Problem Information

Difficulty: Easy

Acceptance Rate: 86.65%

Paid Only: No

Problem Description

Given a function `fn`, return a new function that is identical to the original function except that it ensures `fn` is called at most once.

* The first time the returned function is called, it should return the same result as `fn`. * Every subsequent time it is called, it should return `undefined`.

Example 1:

Input: fn = (a,b,c) => (a + b + c), calls = [[1,2,3],[2,3,6]] **Output:** [{"calls":1,"value":6}]
Explanation: const onceFn = once(fn); onceFn(1, 2, 3); // 6 onceFn(2, 3, 6); // undefined, fn was not called

Example 2:

Input: fn = (a,b,c) => (a * b * c), calls = [[5,7,4],[2,3,6],[4,6,8]] **Output:** [{"calls":1,"value":140}]\n**Explanation:** const onceFn = once(fn); onceFn(5, 7, 4); // 140 onceFn(2, 3, 6); // undefined, fn was not called onceFn(4, 6, 8); // undefined, fn was not called

Constraints:

* `calls` is a valid JSON array * `1 <= calls.length <= 10` * `1 <= calls[i].length <= 100` * `2 <= JSON.stringify(calls).length <= 1000`

Code Snippets

JavaScript:

```
/**  
 * @param {Function} fn  
 * @return {Function}  
 */  
  
var once = function(fn) {  
  
    return function(...args){  
  
    }  
};  
  
/**  
 * let fn = (a,b,c) => (a + b + c)  
 * let onceFn = once(fn)  
 *  
 * onceFn(1,2,3); // 6  
 * onceFn(2,3,6); // returns undefined without calling fn  
 */
```

TypeScript:

```
type JSONValue = null | boolean | number | string | JSONValue[] | { [key:  
string]: JSONValue };  
  
type OnceFn = (...args: JSONValue[]) => JSONValue | undefined  
  
function once(fn: Function): OnceFn {  
  
    return function (...args) {  
  
    };  
}  
  
/**  
 * let fn = (a,b,c) => (a + b + c)  
 * let onceFn = once(fn)  
 *  
 * onceFn(1,2,3); // 6  
 * onceFn(2,3,6); // returns undefined without calling fn  
 */
```