

5743. Incremental Memory Leak

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You are given two integers `memory1` and `memory2` representing the available memory in bits on two memory sticks. There is currently a faulty program running that consumes an increasing amount of memory every second.

At the i^{th} second (starting from 1), i bits of memory are allocated to the stick with **more available memory** (or from the first memory stick if both have the same available memory). If neither stick has at least i bits of available memory, the program **crashes**.

Return an array containing `[crashTime, memory1crash, memory2crash]`, where `crashTime` is the time (in seconds) when the program crashed and `memory1crash` and `memory2crash` are the available bits of memory in the first and second sticks respectively.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:

Input: `memory1 = 2, memory2 = 2`
Output: `[3,1,0]`
Explanation: The memory is allocated as follows:

- At the 1st second, 1 bit of memory is allocated to stick 1. The first stick now has 1 bit of available memory.
- At the 2nd second, 2 bits of memory are allocated to stick 2. The second stick now has 0 bits of available memory.
- At the 3rd second, the program crashes. The sticks have 1 and 0 bits available respectively.

Example 2:

Input: `memory1 = 8, memory2 = 11`
Output: `[6,0,4]`
Explanation: The memory is allocated as follows:

- At the 1st second, 1 bit of memory is allocated to stick 2. The second stick now has 10 bit of available memory.
- At the 2nd second, 2 bits of memory are allocated to stick 2. The second stick now has 8 bits of available memory.
- At the 3rd second, 3 bits of memory are allocated to stick 1. The first stick now has 5 bits of available memory.
- At the 4th second, 4 bits of memory are allocated to stick 2. The second stick now has 4 bits of available memory.
- At the 5th second, 5 bits of memory are allocated to stick 1. The first stick now has 0 bits of available memory.
- At the 6th second, the program crashes. The sticks have 0 and 4 bits available respectively.

Constraints:

- $0 \leq \text{memory1}, \text{memory2} \leq 2^{31} - 1$

JavaScript

```
1 const memLeak = (m1, m2) => {
2   let t = 1;
3   while (m1 >= t || m2 >= t) {
4     if (m1 >= m2) {
5       m1 -= t;
6     } else {
7       m2 -= t;
8     }
9     t++;
10  }
```

```
11     return [t, m1, m2];  
12 };
```

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