You are given an array of integers stones where stones[i] is the weight of the ith stone.

We are playing a game with the stones. On each turn, we choose the **heaviest two stones** and smash them together. Suppose the heaviest two stones have weights x and y with x <= y. The result of this smash is:

* If x == y, both stones are destroyed, and
* If x != y, the stone of weight x is destroyed, and the stone of weight y has new weight y - x.

At the end of the game, there is **at most one** stone left.

Return *the weight of the last remaining stone*. If there are no stones left, return 0.

**Example 1:**

Input: stones = [2,7,4,1,8,1]  
Output: 1  
Explanation:   
We combine 7 and 8 to get 1 so the array converts to [2,4,1,1,1] then,  
we combine 2 and 4 to get 2 so the array converts to [2,1,1,1] then,  
we combine 2 and 1 to get 1 so the array converts to [1,1,1] then,  
we combine 1 and 1 to get 0 so the array converts to [1] then that's the value of the last stone.

**Example 2:**

Input: stones = [1]  
Output: 1

**Constraints:**

* 1 <= stones.length <= 30
* 1 <= stones[i] <= 1000