1046. Last Stone Weight

Description

You are given an array of integers stones where stones[i] is the weight of the i th 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:

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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:

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Input: stones = [1]
Output: 1
```

Constraints:

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