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1046. Last Stone Weight

Easy | ○ Topics | ▤ Companies | ○ Hint

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

- 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`

Seen this question in a real interview before?   1/4

Yes   No

Accepted **574.5K**   Submissions **880.5K**   Acceptance Rate **65.2%**

○ Topics

▤ Companies

○ Hint 1

💬 Discussion (30)

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