(/) Explore Problems(/problemset/all/) Mock(/interview/)

(/contest/) Contest

Discuss(/discuss/) Storediscussion/655704/)







5673. Maximum Score From Removing Stones

My Submissions (/contest/weekly-contest-227/problems/maximum-score-from-removing-stones/submissions/)

Back to Contest (/contest/weekly-contest-227/)

You are playing a solitaire game with three piles of stones of sizes a, b, and c respectively. Each turn you choose two different non-empty piles, take one stone from each, and add 1 point to your score. The game stops when there are fewer than two non-empty piles (meaning there are no more available moves).

Given three integers a, b, and c, return the maximum score you can get.

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

Example 1:

```
Input: a = 2, b = 4, c = 6
Output: 6
Explanation: The starting state is (2, 4, 6). One optimal set of moves is:
- Take from 1st and 3rd piles, state is now (1, 4, 5)
- Take from 1st and 3rd piles, state is now (0, 4, 4)
- Take from 2nd and 3rd piles, state is now (0, 3, 3)
- Take from 2nd and 3rd piles, state is now (0, 2, 2)
- Take from 2nd and 3rd piles, state is now (0, 1, 1)
- Take from 2nd and 3rd piles, state is now (0, 0, 0)
There are fewer than two non-empty piles, so the game ends. Total: 6 points.
```

Example 2:

```
Input: a = 4, b = 4, c = 6
Output: 7
Explanation: The starting state is (4, 4, 6). One optimal set of moves is:
- Take from 1st and 2nd piles, state is now (3, 3, 6)
- Take from 1st and 3rd piles, state is now (2, 3, 5)
- Take from 1st and 3rd piles, state is now (1, 3, 4)
- Take from 1st and 3rd piles, state is now (0, 3, 3)
- Take from 2nd and 3rd piles, state is now (0, 2, 2)
- Take from 2nd and 3rd piles, state is now (0, 1, 1)
- Take from 2nd and 3rd piles, state is now (0, 0, 0)
There are fewer than two non-empty piles, so the game ends. Total: 7 points.
```

Example 3:

```
Input: a = 1, b = 8, c = 8
Output: 8
Explanation: One optimal set of moves is to take from the 2nd and 3rd piles for 8 turns until they are empty.
After that, there are fewer than two non-empty piles, so the game ends.
```

Constraints:

• 1 <= a, b, c <= 10^5

```
JavaScript
                                                                                                                            d c
     * @param {number} a
2
3
     * @param {number} b
 4
     * @param {number} c
5
     * @return {number}
     */
 6
    const maximumScore = (a, b, c) \Rightarrow \{
 7 🔻
8
        let t = [a, b, c];
9
        let cnt = 0;
10 ▼
        while (true) {
11
             t.sort((x, y) \Rightarrow y - x);
12 •
             if (t[0] > 0) {
13
                 if (t[1] > 0) {
```

Submission Result: Accepted (/submissions/detail/453012687/)

More Details > (/submissions/detail/453012687/)

Share your acceptance!

Copyright © 2021 LeetCode Help Center (/support) | Jobs (/jobs) | Bug Bounty (/bugbounty) | Students (/student) | Terms (/terms) | Privacy Policy (/privacy)

United States (/region)