

2335. Minimum Amount of Time to Fill Cups

Hint 

Easy



520

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Companies

You have a water dispenser that can dispense cold, warm, and hot water. Every second, you can either fill up `2` cups with **different** types of water, or `1` cup of any type of water.

You are given a **0-indexed** integer array `amount` of length `3` where `amount[0]`, `amount[1]`, and `amount[2]` denote the number of cold, warm, and hot water cups you need to fill respectively. Return the **minimum** number of seconds needed to fill up all the cups.

Example 1:

Input: `amount = [1,4,2]`

Output: `4`

Explanation: One way to fill up the cups is:

Second 1: Fill up a cold cup and a warm cup.

Second 2: Fill up a warm cup and a hot cup.

Second 3: Fill up a warm cup and a hot cup.

Second 4: Fill up a warm cup.

It can be proven that 4 is the minimum number of seconds needed.

Example 2:

Input: `amount = [5,4,4]`

Output: `7`

Explanation: One way to fill up the cups is:

Second 1: Fill up a cold cup, and a hot cup.

Second 2: Fill up a cold cup, and a warm cup.

Second 3: Fill up a cold cup, and a warm cup.

Second 4: Fill up a warm cup, and a hot cup.

Second 5: Fill up a cold cup, and a hot cup.

Second 6: Fill up a cold cup, and a warm cup.

Second 7: Fill up a hot cup.

Example 3:

Input: `amount = [5,0,0]`

Output: `5`

Explanation: Every second, we fill up a cold cup.




Constraints:

- `amount.length == 3`
- `0 <= amount[i] <= 100`

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Yes No

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