1228. Missing Number In Arithmetic Progression

Description

In some array `arr`, the values were in arithmetic progression: the values `arr[i + 1] - arr[i]` are all equal for every `0 <= i < arr.length - 1`.

A value from `arr` was removed that **was not the first or last value in the array**.

Given `arr`, return *the removed value*.

Example 1:

```
Input: arr = [5,7,11,13]
Output: 9
Explanation: The previous array was [5,7, 9 ,11,13].
```

Example 2:

```
Input: arr = [15,13,12]
Output: 14
Explanation: The previous array was [15, 14 ,13,12].
```

Constraints:

- `3 <= arr.length <= 1000`
- `0 <= arr[i] <= 10^5`
- The given array is **guaranteed** to be a valid array.