1228. Missing Number In Arithmetic Progression Premium Easy ♥ Topics 🖫 Companies 🗘 Hint In some array arr, the values were in arithmetic progression: the values arr[i + 1] - arr[i] are all equal for every $\emptyset \ll i \ll arr$. 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] <= 10⁵ • The given array is **guaranteed** to be a valid array. Seen this question in a real interview before? 1/5 Yes No Accepted 28.6K Submissions 54.9K Acceptance Rate 52.0% ♥ Topics Array Math **Companies** 0 - 6 months Audible 2 Q Hint 1 Assume the sequence is increasing, what if we find the largest consecutive difference? O Hint 2 Is the missing element in the middle of the segment with the largest consecutive difference? O Hint 3 For decreasing sequences, just reverse the array and do a similar process. Discussion (3)

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