281. Zigzag Iterator Premium Medium Given two vectors of integers v1 and v2, implement an iterator to return their elements alternately. Implement the ZigzagIterator class: ZigzagIterator(List<int> v1, List<int> v2) initializes the object with the two vectors v1 and v2. boolean hasNext() returns true if the iterator still has elements, and false otherwise. int next() returns the current element of the iterator and moves the iterator to the next element. Example 1: **Input:** v1 = [1,2], v2 = [3,4,5,6]Output: [1,3,2,4,5,6] Explanation: By calling next repeatedly until hasNext returns false, the order of elements returned by next should be: [1,3,2,4,5,6]. Example 2: **Input:** v1 = [1], v2 = []**Output:** [1] Example 3: **Input:** v1 = [], v2 = [1]**Output:** [1] Constraints: 0 <= v1.length, v2.length <= 1000 1 <= v1.length + v2.length <= 2000 • $-2^{31} \leftarrow v1[i], v2[i] \leftarrow 2^{31} - 1$ Follow up: What if you are given k vectors? How well can your code be extended to such cases? Clarification for the follow-up question: The "Zigzag" order is not clearly defined and is ambiguous for k > 2 cases. If "Zigzag" does not look right to you, replace "Zigzag" with "Cyclic". Follow-up Example: **Input:** v1 = [1,2,3], v2 = [4,5,6,7], v3 = [8,9]Output: [1,4,8,2,5,9,3,6,7] Seen this question in a real interview before? 1/5 Yes No Accepted 97.6K Submissions 151.1K Acceptance Rate 64.6% Topics Design Queue Iterator Array Companies 0 - 3 months Coinbase (3) 0 - 6 months Google 2 **t**≡ Similar Questions Binary Search Tree Iterator Medium Flatten 2D Vector 🍃 Medium Peeking Iterator Medium

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