Given two vectors of integers v1 and v2, implement an iterator to return their elements alternately. Implement the zigzagIterator class: 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:** • 1 <= v1.length + v2.length <= 2000 • $-2^{31} \le v1[i], v2[i] \le 2^{31} - 1$ 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". Example: **Input:** v1 = [1,2,3], v2 = [4,5,6,7], v3 = [8,9]**Output:** [1,4,8,2,5,9,3,6,7] Accepted 75,416 Submissions 124,406 Seen this question in a real interview before? Yes No Companies 🔓 i 0 ~ 6 months 6 months ~ 1 year 1 year ~ 2 years Yandex | 3 | Amazon | 2 **Related Topics** Array Design Queue Iterator Similar Questions Binary Search Tree Iterator Medium Flatten 2D Vector Medium Peeking Iterator Medium Flatten Nested List Iterator Medium

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