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251. Flatten 2D Vector

Medium

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Design an iterator to flatten a 2D vector. It should support the `next` and `hasNext` operations.

Implement the `Vector2D` class:

- `Vector2D(int[][] vec)` initializes the object with the 2D vector `vec`.
- `next()` returns the next element from the 2D vector and moves the pointer one step forward. You may assume that all the calls to `next` are valid.
- `hasNext()` returns `true` if there are still some elements in the vector, and `false` otherwise.

Example 1:

Input
["Vector2D", "next", "next", "next", "hasNext", "hasNext", "next", "hasNext"]
[[[1, 2], [3], [4]], [], [], [], [], [], []]

Output
[null, 1, 2, 3, true, true, 4, false]

Explanation
Vector2D vector2D = new Vector2D([[1, 2], [3], [4]]);
vector2D.next(); // return 1
vector2D.next(); // return 2
vector2D.next(); // return 3
vector2D.hasNext(); // return True
vector2D.hasNext(); // return True
vector2D.next(); // return 4
vector2D.hasNext(); // return False

Constraints:

- `0 <= vec.length <= 200`
- `0 <= vec[i].length <= 500`
- `-500 <= vec[i][j] <= 500`
- At most `105` calls will be made to `next` and `hasNext`.

Follow up: As an added challenge, try to code it using only iterators in C++ or iterators in Java.

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```
1 class Vector2D {
2
3     public Vector2D(int[][] vec) {
4
5     }
6
7     public int next() {
8
9     }
10
11    public boolean hasNext() {
12
13    }
14 }
15
16 /**
17  * Your Vector2D object will be instantiated and called as such:
18  * Vector2D obj = new Vector2D(vec);
19  * int param_1 = obj.next();
20  * boolean param_2 = obj.hasNext();
21  */
```

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