## 251. Flatten 2D Vector

## Description

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:

## **Constraints:**

- 0 <= vec.length <= 200
- 0 <= vec[i].length <= 500
- -500 <= vec[i][j] <= 500
- At most 10 5 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.