

281. Zigzag Iterator

Given two 1d vectors, implement an iterator to return their elements alternately.

```
public class ZigzagIterator {

    Deque<Iterator<Integer>> queue = new LinkedList<>();

    public ZigzagIterator(List<Integer> v1, List<Integer> v2) {
        if (!v1.isEmpty())
            queue.offer(v1.iterator());

        if (!v2.isEmpty())
            queue.offer(v2.iterator());
    }

    public int next() {
        Iterator<Integer> i = queue.poll();
        int ans = i.next();
        if (i.hasNext())
            queue.offer(i);

        return ans;
    }

    public boolean hasNext() {
        return !queue.isEmpty();
    }
}
```