Given a nested list of integers, implement an iterator to flatten it.

Each element is either an integer, or a list -- whose elements may also be integers or other lists.

**Example 1:**

**Input:** [[1,1],2,[1,1]]

**Output:** [1,1,2,1,1]

**Explanation:** By calling *next* repeatedly until *hasNext* returns false,

  the order of elements returned by *next* should be: [1,1,2,1,1].

**Example 2:**

**Input:** [1,[4,[6]]]

**Output:** [1,4,6]

**Explanation:** By calling *next* repeatedly until *hasNext* returns false,

  the order of elements returned by *next* should be: [1,4,6].