```
* // This is the interface that allows for creating nested lists.
* // You should not implement it, or speculate about its implementation
* public interface NestedInteger {
    // @return true if this NestedInteger holds a single integer, rather than a nested list.
    public boolean isInteger();
    // @return the single integer that this NestedInteger holds, if it holds a single integer
    // Return null if this NestedInteger holds a nested list
    public Integer getInteger();
    // @return the nested list that this NestedInteger holds, if it holds a nested list
    // Return null if this NestedInteger holds a single integer
    public List<NestedInteger> getList();
public class NestedIterator implements Iterator<Integer> {
  Stack<ListIterator<NestedInteger>> stack;
  public NestedIterator(List<NestedInteger> nestedList) {
     stack = new Stack<>();
     stack.push(nestedList.listIterator());
  @Override
  public Integer next() {
     hasNext();
     return stack.peek().next().getInteger();
  }
  @Override
  public boolean hasNext() {
     while (!stack.isEmpty()) {
       if (!stack.peek().hasNext()) {
          stack.pop();
          continue:
       NestedInteger ni = stack.peek().next();
       if (ni.isInteger()) {
          stack.peek().previous();
          return true;
       } else {
          stack.push(ni.getList().listIterator());
     return false;
* Your NestedIterator object will be instantiated and called as such:
* NestedIterator i = new NestedIterator(nestedList);
* while (i.hasNext()) v[f()] = i.next();
```

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:

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].