

LeetCode

Explore

Problems

Interview

Contest

Discuss

Store

LeetCode is hiring! Apply NOW.

3

Description

Solution

Discuss (999+)

Submissions

i

Java

Autocomplete

i

{ }

341. Flatten Nested List Iterator

Medium

3678

1292

Add to List

Share

You are given a nested list of integers `nestedList` . Each element is either an integer or a list whose elements may also be integers or other lists. Implement an iterator to flatten it.

Implement the `NestedIterator` class:

- `NestedIterator(List<NestedInteger> nestedList)` Initializes the iterator with the nested list `nestedList` .
- `int next()` Returns the next integer in the nested list.
- `boolean hasNext()` Returns `true` if there are still some integers in the nested list and `false` otherwise.

Your code will be tested with the following pseudocode:

```
initialize iterator with nestedList
res = []
while iterator.hasNext()
    append iterator.next() to the end of res
return res
```

If `res` matches the expected flattened list, then your code will be judged as correct.

**Example 1:**

**Input:** `nestedList = [[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:** `nestedList = [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]`.

**Constraints:**

- `1 <= nestedList.length <= 500`
- The values of the integers in the nested list is in the range `[-106, 106]` .

Accepted 321,036

Submissions 529,456

Seen this question in a real interview before?

Yes

No

Companies

i

Related Topics

Similar Questions

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

```
/**
 * 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 empty list if this NestedInteger holds a single integer
 *     public List<NestedInteger> getList();
 * }
 */
public class NestedIterator implements Iterator<Integer> {
    public NestedIterator(List<NestedInteger> nestedList) {

    }

    @Override
    public Integer next() {

    }

    @Override
    public boolean hasNext() {

    }
}

/**
 * Your NestedIterator object will be instantiated and called as such:
 * NestedIterator i = new NestedIterator(nestedList);
 */
```

Problems

Pick One

< Prev

341/2268

Next >

Console

Contribute i

Run Code

Submit

https://leetcode.com/problems/flatten-nested-list-iterator/

1/1