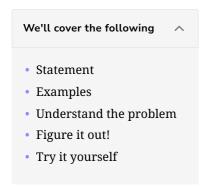


## Flatten Nested List Iterator

Try to solve the Flatten Nested List Iterator problem.



### **Statement**

You're given a nested list of integers. Each element is either an integer or a list whose elements may also be integers or other integer lists. Your task is to implement an iterator to flatten the nested list.

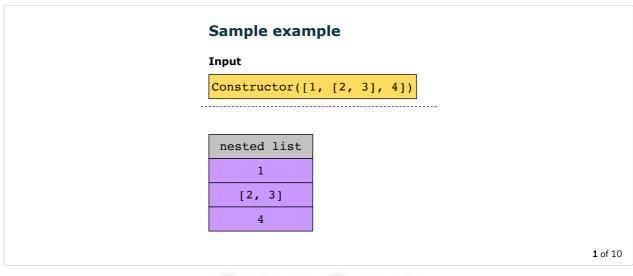
You will have to implement the **Nested Iterator** class. This class has the following functions:

- **Constructor:** This initializes the iterator with the nested list.
- Next (): This returns the next integer in the nested list.
- **Has Next ():** This returns TRUE if there are still some integers in the nested list. Otherwise, it returns FALSE.

#### **Constraints**

- The nested list length is between 1 and 500.
- The nested list consists of integers between  $-10^6$  and  $10^6$ .

### **Examples**





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Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

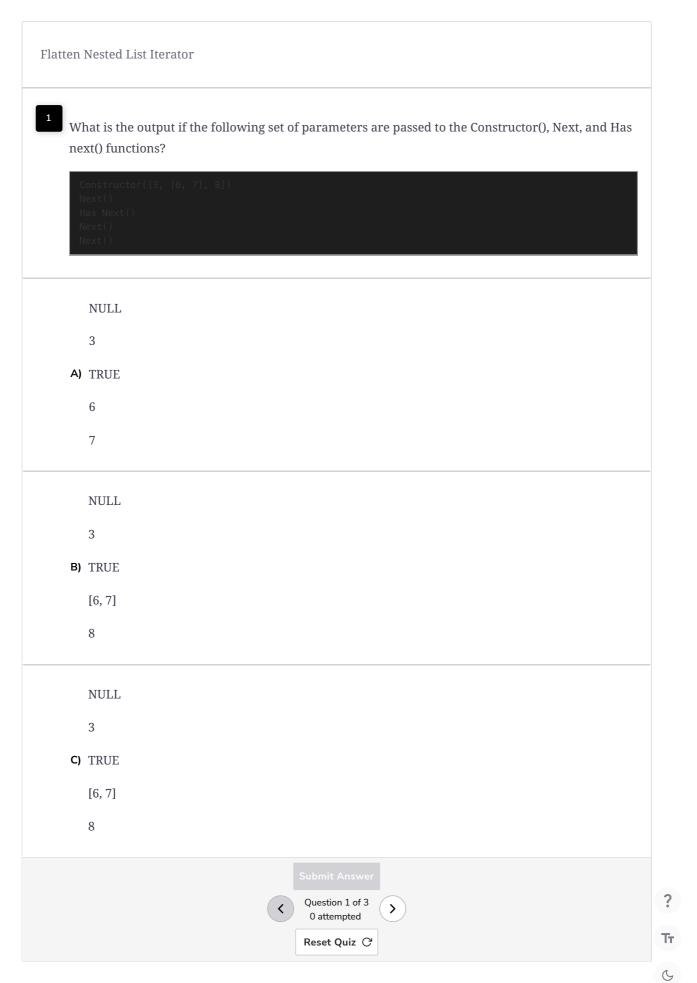
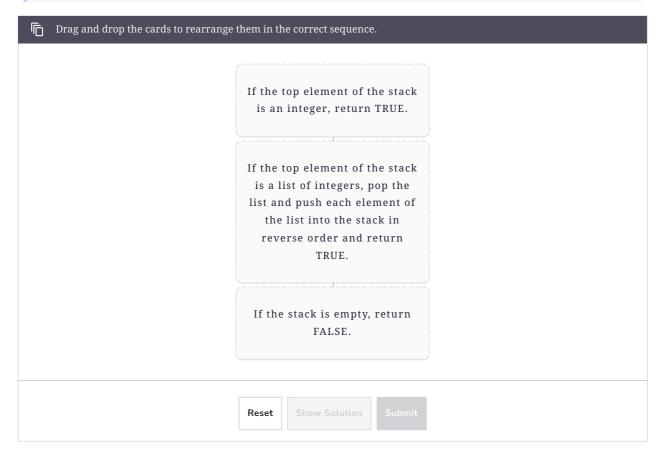


Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

Note: You need to figure out the solution of the Has Next () function only.



# Try it yourself

Implement your solution in NestedIterator.java in the following coding playground. You'll need the provided supporting code to implement your solution.

```
G
👙 Java
                            1 import java.util.*;
 NestedIterator.java
                            2 class NestedIterator {
                               // NestedIterator constructor inializes the stack using the
                            3
 NestedInteger.java
                            4
                                // given nestedList list
                            5
                                public NestedIterator(List<NestedInteger> nestedList) {
                            6
                                  // Write your code here
                            7
                                 >_
                           11
                           12
                                   // Write your code here
                           13
                                   return false;
                           14
                                // Check if there is still an integer in the stack
                           15
                                public int next() {
                           16
                           17
                                  // Write your code here
                           18
                                  return -1;
                                                                                                        ?
                           19
                           20
                                // ----- Please don't change the following function -----
                           21
                                // flatten_list function is used for testing porpuses.
                                                                                                        Tτ
                           22
                                // Your code will be tested using this function
                                \verb"public static List<Integer> flattenList(NestedIterator obj) \{
                           23
                                 List<Integer> result = new ArrayList<Integer>();
                                                                                                        6
                           24
                           25
                                  while (obj.hasNext()) {
                           26
                                     result.add(obj.next());
```

