i {} 5 ⊕ □

be integers or other lists.

You are given a nested list of integers nestedList. Each element is either an integer or a list whose elements may also

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The **depth** of an integer is the number of lists that it is inside of. For example, the nested list [1,[2,2],[[3],2],1] has each integer's value set to its depth.

Return the sum of each integer in nestedList multiplied by its depth.

Example 1:

```
nestedList = [[1, 1], 2, [1, 1]]
depth =
```

Input: nestedList = [[1,1],2,[1,1]] Output: 10 **Explanation:** Four 1's at depth 2, one 2 at depth 1. 1*2 + 1*2 + 2*1 + 1*2 + 1*2 = 10.

Example 2:

Input: nestedList = [1,[4,[6]]] Output: 27 **Explanation:** One 1 at depth 1, one 4 at depth 2, and one 6 at depth 3. 1*1 + 4*2 + 6*3 = 27.

Example 3:

Input: nestedList = [0] Output: 0

Constraints:

- 1 <= nestedList.length <= 50
- The values of the integers in the nested list is in the range [-100, 100].
- The maximum **depth** of any integer is less than or equal to 50.

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i Java

```
1 ▼ | /**
      * // This is the interface that allows for creating nested lists.
      * // You should not implement it, or speculate about its implementation
      * public interface NestedInteger {
            // Constructor initializes an empty nested list.
            public NestedInteger();
            // Constructor initializes a single integer.
            public NestedInteger(int value);
10
11
            // @return true if this NestedInteger holds a single integer, rather than a nested list.
12
            public boolean isInteger();
13
14
            // @return the single integer that this NestedInteger holds, if it holds a single integer
15
            // Return null if this NestedInteger holds a nested list
16
            public Integer getInteger();
17
18
            // Set this NestedInteger to hold a single integer.
19
            public void setInteger(int value);
20
21
            // Set this NestedInteger to hold a nested list and adds a nested integer to it.
            public void add(NestedInteger ni);
22
23
24
            // @return the nested list that this NestedInteger holds, if it holds a nested list
25
            // Return empty list if this NestedInteger holds a single integer
26
            public List<NestedInteger> getList();
27
      * }
      */
28
29 ▼ class Solution {
30
         public int depthSum(List<NestedInteger> nestedList) {
31 ▼
32
             return dfs(nestedList, 1);
33
34
35 ▼
         private int dfs(List<NestedInteger> list, int depth) {
36
             int total = 0;
37 ▼
             for (NestedInteger nested : list) {
                 if (nested.isInteger()) {
38 ▼
39
                     total += nested.getInteger() * depth;
40 ▼
                 } else {
41
                     total += dfs(nested.getList(), depth + 1);
42
43
44
             return total;
45
46
47
48
49 ▼ | class Solution {
50 ▼
         public int depthSum(List<NestedInteger> nestedList) {
51
             Queue<NestedInteger> queue = new LinkedList<>();
52
             queue.addAll(nestedList);
53
54
             int depth = 1;
55
             int total = 0;
56
57 ▼
             while (!queue.isEmpty()) {
58
                 int size = queue.size();
59 ▼
                 for (int i = 0; i < size; i++) {
60
                     NestedInteger nested = queue.poll();
                     if (nested.isInteger()) {
```

total += nested.getInteger() * depth;

queue.addAll(nested.getList());

} else {

depth++;

return total;

Medium

Medium

Medium