

Problem List

DescriptionEditorialSolutionsSubmissions

3062. Winner of the Linked List GamePremium

Solved

EasyTopicsHint

You are given the `head` of a linked list of **even** length containing integers.

Each **odd-indexed** node contains an odd integer and each **even-indexed** node contains an even integer.

We call each even-indexed node and its next node a **pair**, e.g., the nodes with indices `0` and `1` are a pair, the nodes with indices `2` and `3` are a pair, and so on.

For every **pair**, we compare the values of the nodes in the pair:

- If the odd-indexed node is higher, the "Odd" team gets a point.
- If the even-indexed node is higher, the "Even" team gets a point.

Return the name of the team with the **higher** points, if the points are equal, return "Tie".

Example 1:

Input: head = [2,1]

Output: "Even"

Explanation: There is only one pair in this linked list and that is (2,1). Since 2 > 1, the Even team gets the point. Hence, the answer would be "Even".

Example 2:

Input: head = [2,5,4,7,20,5]

Output: "Odd"

Explanation: There are 3 pairs in this linked list. Let's investigate each pair individually:  
(2,5) -> Since 2 < 5, The Odd team gets the point.  
(4,7) -> Since 4 < 7, The Odd team gets the point.  
(20,5) -> Since 20 > 5, The Even team gets the point.  
The Odd team earned 2 points while the Even team got 1 point and the Odd team has the higher points. Hence, the answer would be "Odd".

Example 3:

Input: head = [4,5,2,1]

Output: "Tie"

Explanation: There are 2 pairs in this linked list. Let's investigate each pair individually:  
(4,5) -> Since 4 < 5, the Odd team gets the point.  
(2,1) -> Since 2 > 1, the Even team gets the point.  
Both teams earned 1 point.  
Hence, the answer would be "Tie".

Constraints:

- The number of nodes in the list is in the range [2, 100].
- The number of nodes in the list is even.
- 1 <= Node.val <= 100
- The value of each odd-indexed node is odd.
- The value of each even-indexed node is even.

Seen this question in a real interview before? 1/5

YesNo

Accepted 7.6K | Submissions 9.3K | Acceptance Rate 82.2%

Topics

Hint 1

Hint 2

Hint 3

Discussion (3)

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Code

Python3Auto

```
5 # self.next = next
6 class Solution:
7     def gameResult(self, head: Optional[ListNode]) -> str:
8
9         even = 0
10        odd = 0
11
12        index = 1
13        prev = head.val
14        head = head.next
15
16        while head:
17
18            if index % 2 == 0:
19                prev = head.val
20
21            else:
22                new = head.val
23                if new > prev:
24                    odd += 1
25                else:
26                    even += 1
27
28            head = head.next
29            index += 1
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31        if even > odd:
32            return("Even")
33        elif even < odd:
34            return("Odd")
35        else:
36            return("Tie")
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