A **critical point** in a linked list is defined as **either** a **local maxima** or a **local minima**.

A node is a **local maxima** if the current node has a value **strictly greater** than the previous node and the next node.

A node is a **local minima** if the current node has a value **strictly smaller** than the previous node and the next node.

Note that a node can only be a local maxima/minima if there exists **both** a previous node and a next node.

Given a linked list head, return *an array of length 2 containing* [minDistance, maxDistance] *where* minDistance *is the* ***minimum distance*** *between* ***any two distinct*** *critical points and* maxDistance *is the* ***maximum distance*** *between* ***any two distinct*** *critical points. If there are* ***fewer*** *than two critical points, return* [-1, -1].

**Example 1:**



Input: head = [3,1]  
Output: [-1,-1]  
Explanation: There are no critical points in [3,1].

**Example 2:**



Input: head = [5,3,1,2,5,1,2]  
Output: [1,3]  
Explanation: There are three critical points:  
- [5,3,1,2,5,1,2]: The third node is a local minima because 1 is less than 3 and 2.  
- [5,3,1,2,5,1,2]: The fifth node is a local maxima because 5 is greater than 2 and 1.  
- [5,3,1,2,5,1,2]: The sixth node is a local minima because 1 is less than 5 and 2.  
The minimum distance is between the fifth and the sixth node. minDistance = 6 - 5 = 1.  
The maximum distance is between the third and the sixth node. maxDistance = 6 - 3 = 3.

**Example 3:**



Input: head = [1,3,2,2,3,2,2,2,7]  
Output: [3,3]  
Explanation: There are two critical points:  
- [1,3,2,2,3,2,2,2,7]: The second node is a local maxima because 3 is greater than 1 and 2.  
- [1,3,2,2,3,2,2,2,7]: The fifth node is a local maxima because 3 is greater than 2 and 2.  
Both the minimum and maximum distances are between the second and the fifth node.  
Thus, minDistance and maxDistance is 5 - 2 = 3.  
Note that the last node is not considered a local maxima because it does not have a next node.

**Constraints:**

* The number of nodes in the list is in the range [2, 105].
* 1 <= Node.val <= 105