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].

```
/**
* Definition for singly-linked list.
* public class ListNode {
     public var val: Int
     public var next: ListNode?
     public init() { self.val = 0; self.next = nil; }
      public init( val: Int) { self.val = val; self.next = nil; }
      public init( val: Int, next: ListNode?) { self.val = val;
self.next = next; }
* }
* /
class Solution {
   func nodesBetweenCriticalPoints( head: ListNode?) -> [Int] {
       var pts:[Int] = []
       var curr = head
       var prev = curr
       curr = curr?.next
       var a = prev!.val
       var b = curr!.val
       var c = 0
       var index = 2
       while(curr?.next != nil) {
           c = curr!.next!.val
```

```
if(a < b \&\& b > c){
        // print("maxima")
        // print(a)
        // print(b)
        // print(c)
        pts.append(index)
    }
    if(a > b \&\& b < c) {
        // print("minima")
        // print(a)
        // print(b)
        // print(c)
        pts.append(index)
    }
    prev = curr
    curr = curr?.next
    a = prev!.val
    b = curr!.val
    index = index + 1
}
if (pts.count < 2) {</pre>
    return [-1,-1]
}
var ans:[Int] = []
var t = pts[1] - pts[0]
for i in (0..<pts.count-1) {</pre>
    t = min(t, (pts[i+1]-pts[i]))
}
// print(pts)
ans.append(t)
ans.append(pts[pts.count-1] - pts[0])
return ans
```

} }