

2674. Split a Circular Linked List Premium

Medium Topics Hint

Given a **circular linked list** `list` of positive integers, your task is to split it into 2 **circular linked lists** so that the first one contains the **first half** of the nodes in `list` (exactly `ceil(list.length / 2)` nodes) in the same order they appeared in `list`, and the second one contains **the rest** of the nodes in `list` in the same order they appeared in `list`.

Return an array answer of length 2 in which the first element is a **circular linked list** representing the **first half** and the second element is a **circular linked list** representing the **second half**.

A **circular linked list** is a normal linked list with the only difference being that the last node's next node, is the first node.

Example 1:

Input: `nums = [1,5,7]`
Output: `[[1,5],[7]]`
Explanation: The initial list has 3 nodes so the first half would be the first 2 elements since `ceil(3 / 2) = 2` and the rest which is 1 node is in the second half.

Example 2:

Input: `nums = [2,6,1,5]`
Output: `[[2,6],[1,5]]`
Explanation: The initial list has 4 nodes so the first half would be the first 2 elements since `ceil(4 / 2) = 2` and the rest which is 2 nodes are in the second half.

Constraints:

- The number of nodes in `list` is in the range `[2, 105]`
- `0 <= Node.val <= 109`
- `LastNode.next = FirstNode` where `LastNode` is the last node of the list and `FirstNode` is the first one

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Yes No

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Topics

Linked ListTwo Pointers

Hint 1

Do a while loop to calculate the size of the linked list.

Hint 2

Determine the size of the first half and create a new linked list in its size.

Hint 3

Do not forget that this half itself should be circular!

Hint 4

Use the previous hints for the second half.

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