143. Reorder List

You are given the head of a singly linked-list. The list can be represented as:

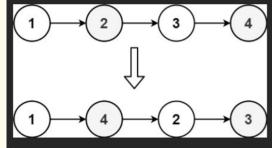
$$\mid L_0 \rightarrow L_1 \rightarrow ... \rightarrow L_{n-1} \rightarrow L_n$$

Reorder the list to be on the following form:

$$L_0 \rightarrow L_0 \rightarrow L_1 \rightarrow L_0 = 1 \rightarrow L_2 \rightarrow L_0 = 2 \rightarrow ...$$

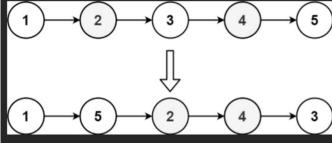
You may not modify the values in the list's nodes. Only nodes themselves may be changed.

Example 1:



Input: head = [1,2,3,4]
Output: [1,4,2,3]

Example 2:



Input: head = [1,2,3,4,5]
Output: [1,5,2,4,3]

O Slow

2

5 F

0-21

SF