

143. Reorder List

Medium  Topics  Companies

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

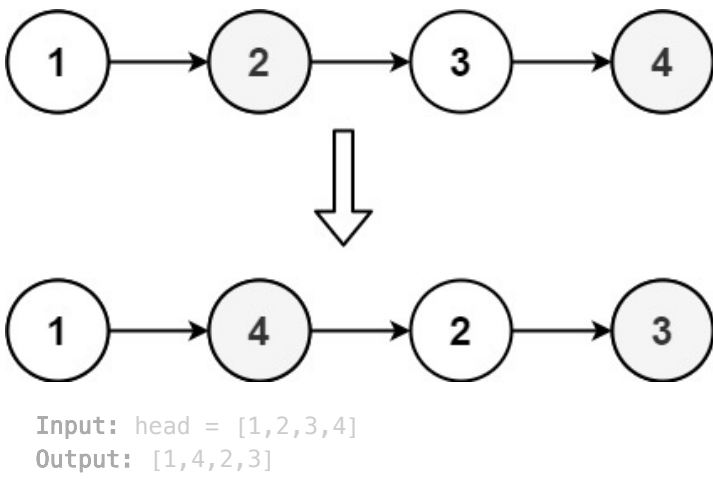
$$L_0 \rightarrow L_1 \rightarrow \dots \rightarrow L_{n-1} \rightarrow L_n$$

Reorder the list to be on the following form:

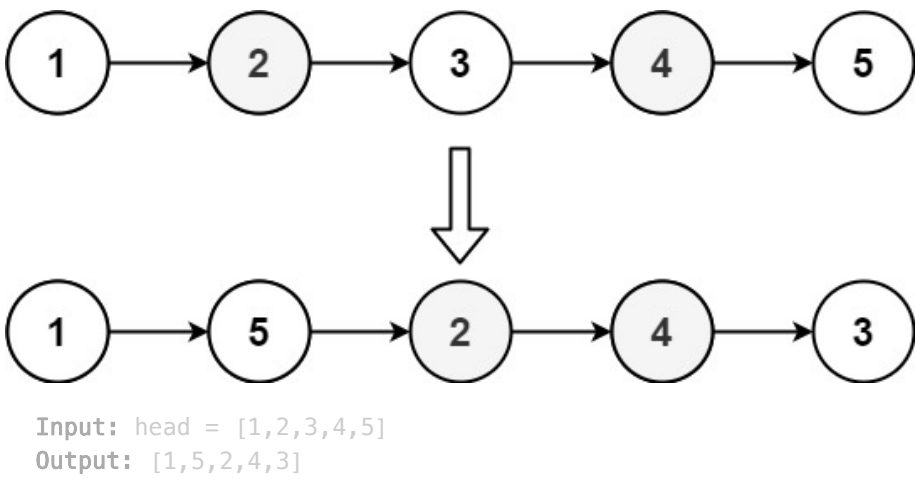
$$L_0 \rightarrow L_n \rightarrow L_1 \rightarrow L_{n-1} \rightarrow L_2 \rightarrow L_{n-2} \rightarrow \dots$$

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

Example 1:



Example 2:



Constraints:

- The number of nodes in the list is in the range $[1, 5 * 10^4]$.
- $1 \leq \text{Node.val} \leq 1000$

Seen this question in a real interview before? 1/4

Yes No

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