143. Reorder List

Description

You are given the head of a singly linked-list. The list can be represented as:
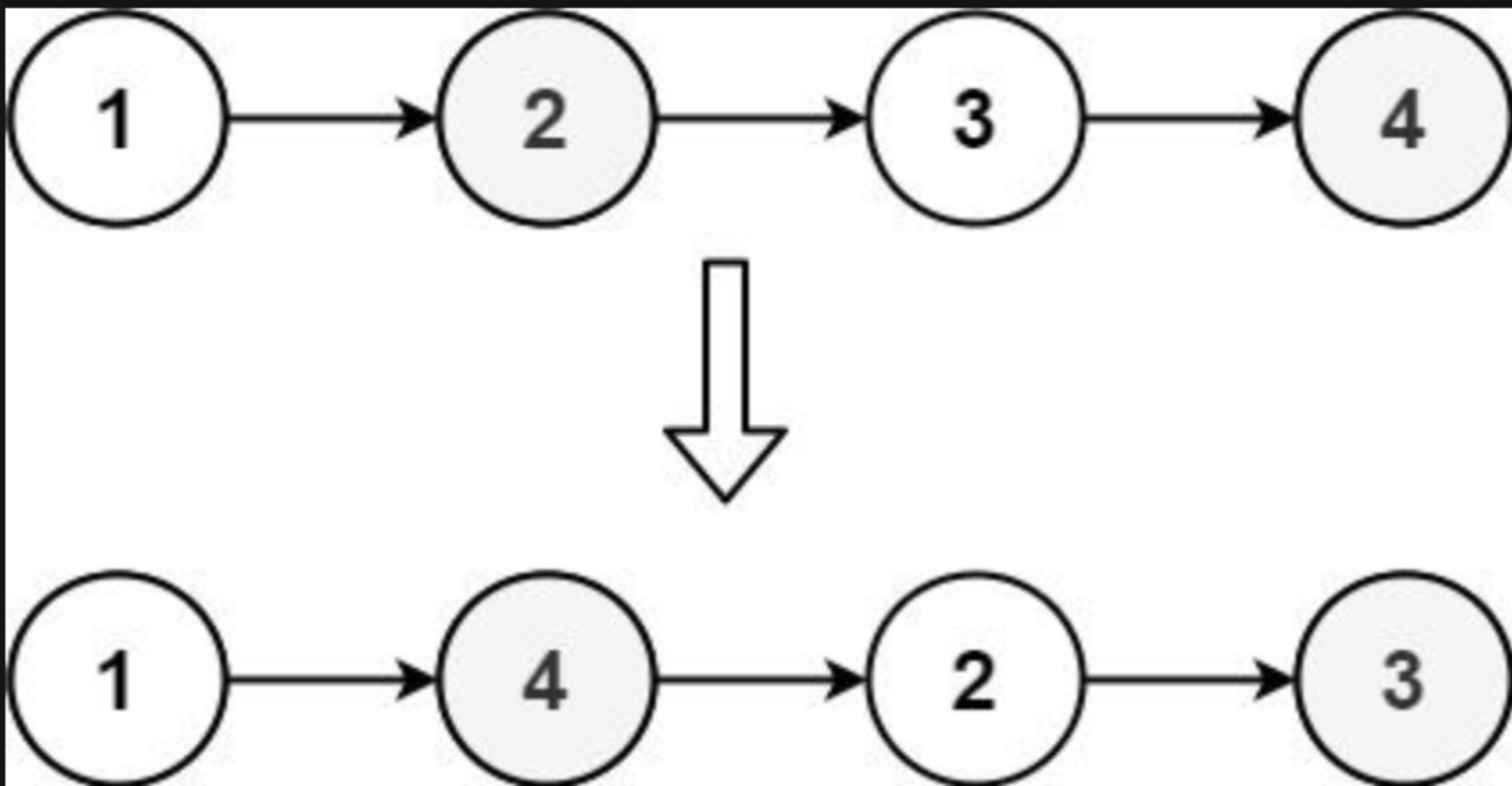
```
L₀ → L₁ → … → Lₙ₋₁ → Lₙ
```

Reorder the list to be on the following form:

```
L₀ → Lₙ → L₁ → Lₙ₋₁ → L₂ → Lₙ₋₂ → …
```
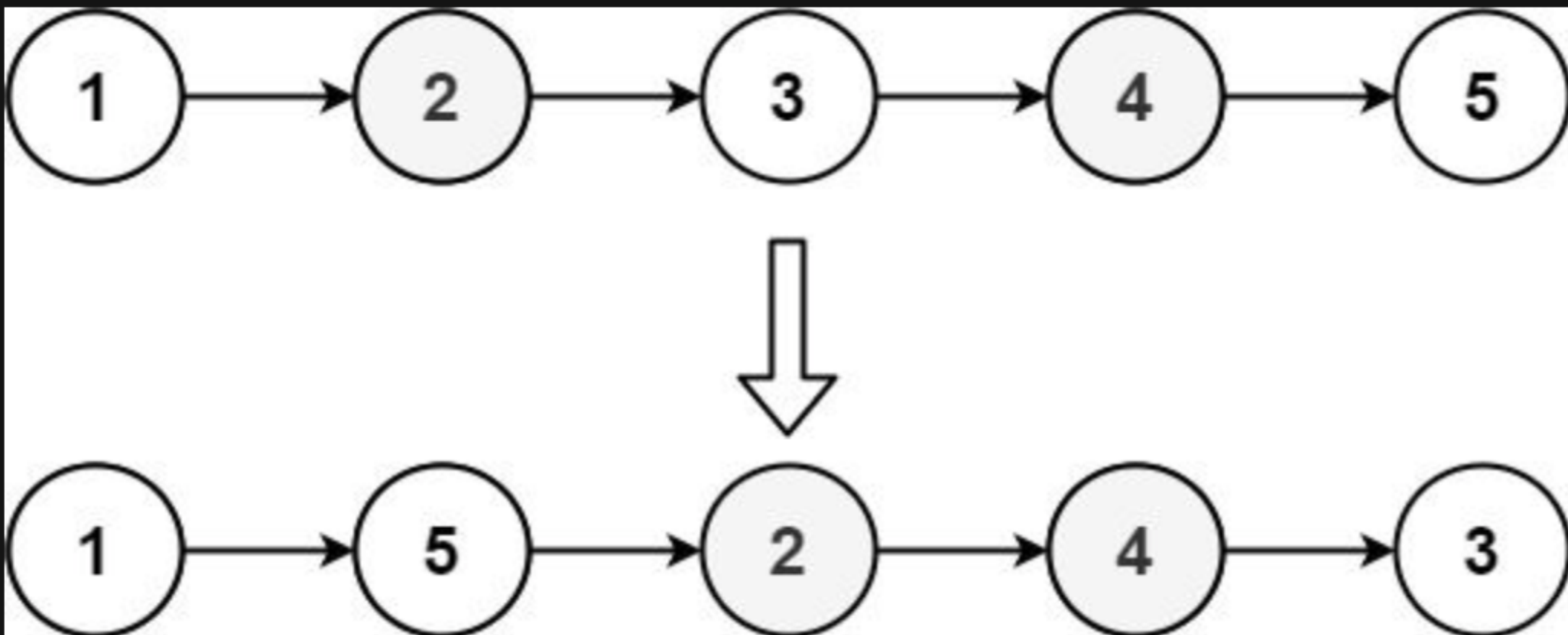
You may not modify the values in the list's nodes. Only nodes themselves may be changed.

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]
```

Constraints:

- The number of nodes in the list is in the range $[1, 5 * 10^4]$.
- $1 <= Node.val <= 1000$