Reorder List

Medium

Given a singly linked list $L: L_0 \rightarrow L_1 \rightarrow ... \rightarrow L_{n-1} \rightarrow L_n$, reorder it to: $L_0 \rightarrow L_1 \rightarrow L_1 \rightarrow L_{n-1} \rightarrow L_2 \rightarrow L_{n-2} \rightarrow ...$

You may **not** modify the values in the list's nodes, only nodes itself may be changed.

Example 1:

Given 1->2->3->4, reorder it to 1->4->2->3.

Example 2:

Given 1->2->3->4->5, reorder it to 1->5->2->4->3.