

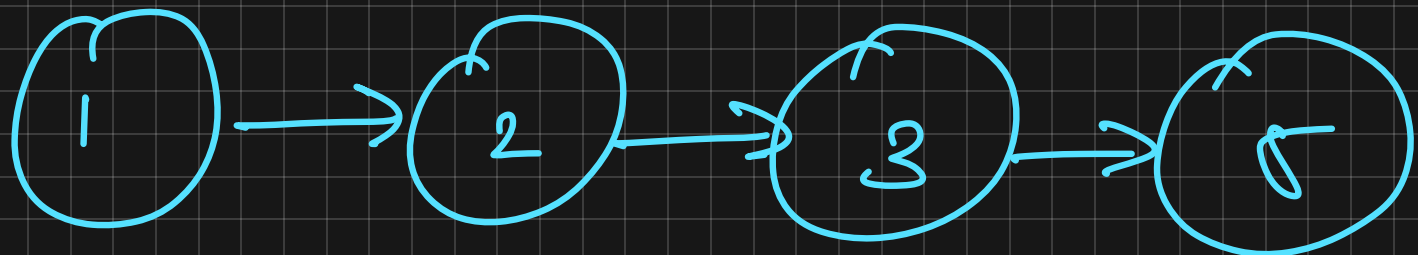
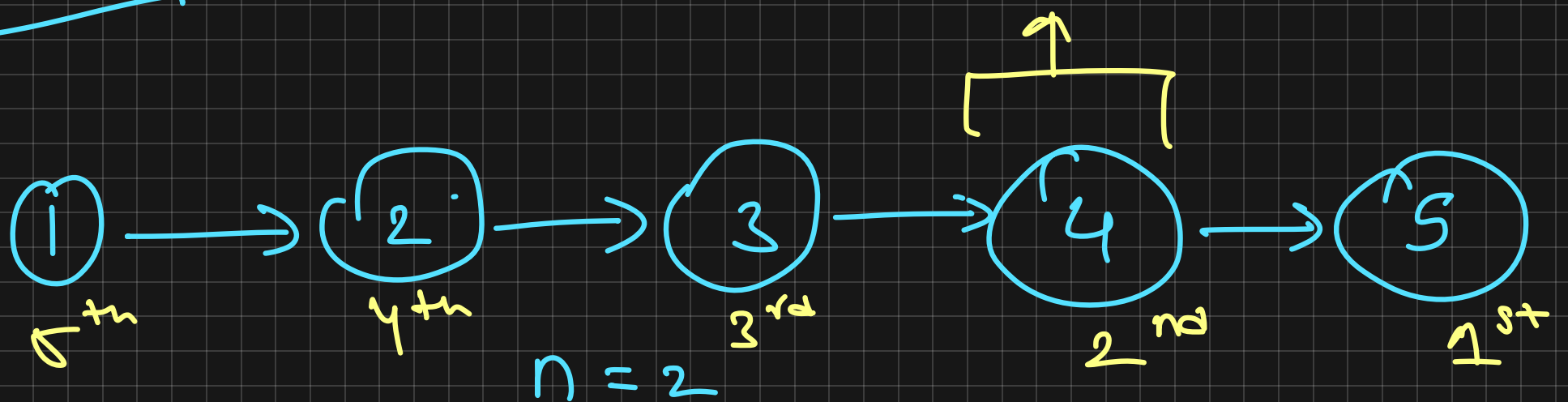
# LeetCode #19

↳ Day-6

## Removing $n^{\text{th}}$ Node from the Last

Example

2<sup>nd</sup> Node from the Last



## Approach

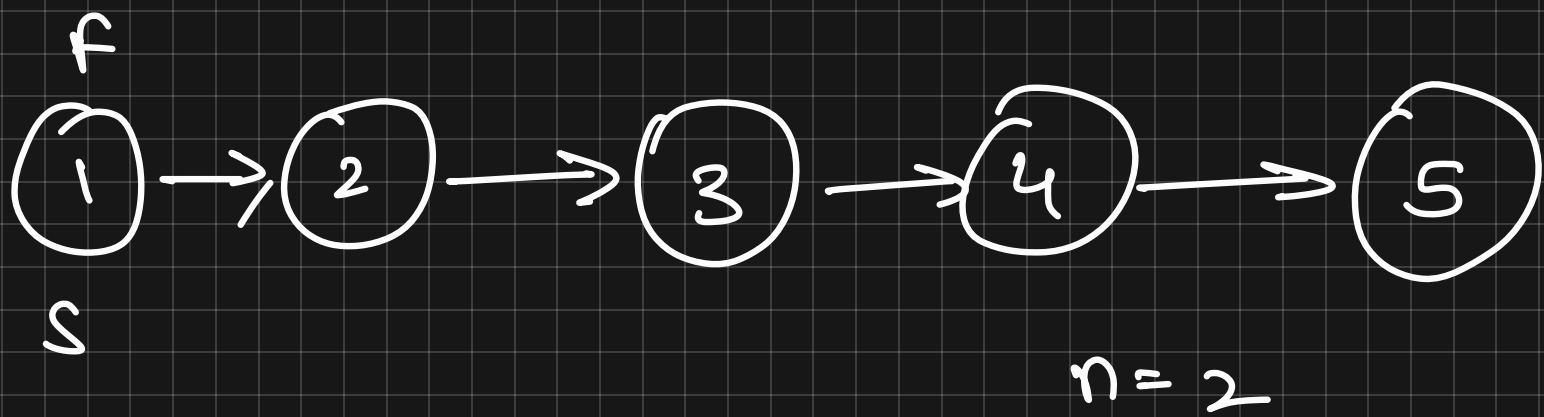
① We can use two pointer approach.

→ Fast Pointer

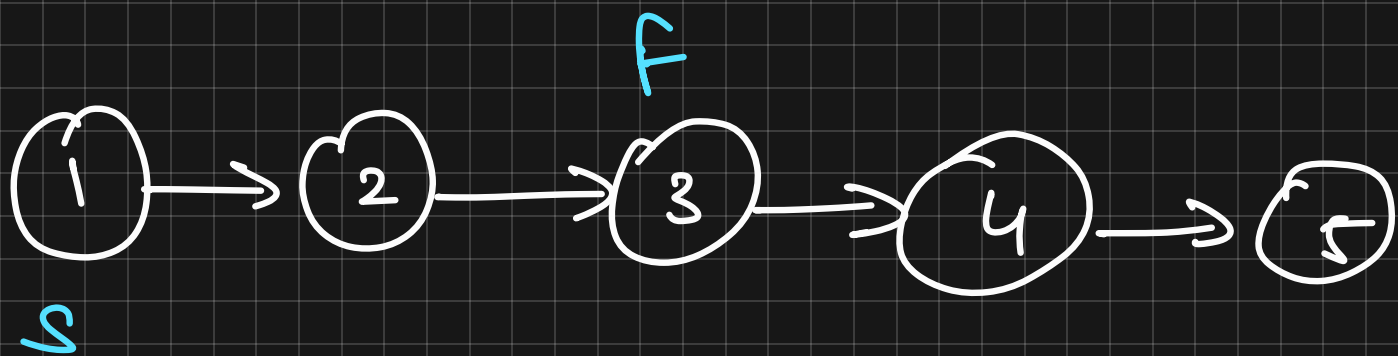
→ Slow Pointer

★ In this,  $(M-n)$  will always return the  $n^{\text{th}}$  node

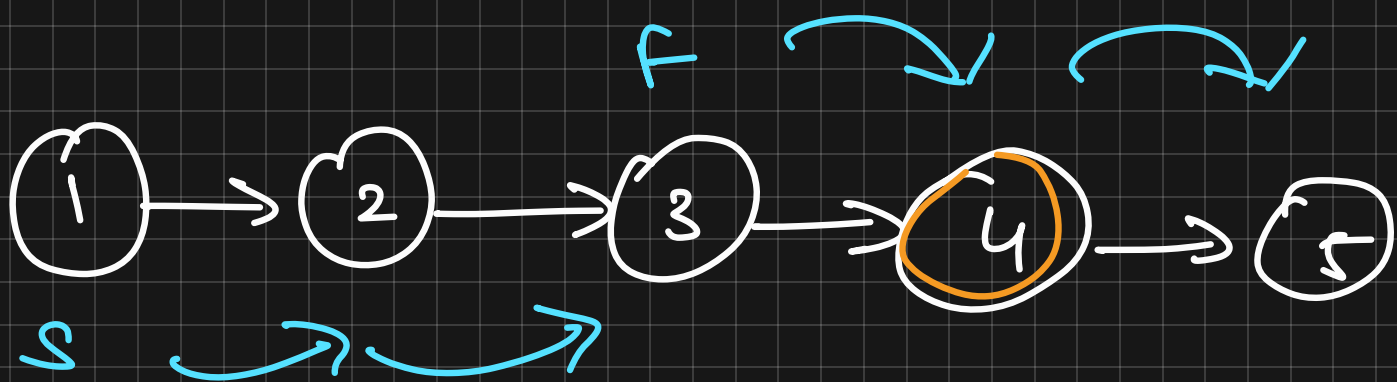
where  $M = \text{length of LL}$ .



Head start for Fast ptr



Now while (fast > next)



When  $f \rightarrow \text{next} = \text{NULL}$ , it stops.

Now fast ptr is at the last Node.

And slow ptr is  $n^{\text{th}}$  step behind

fast ptr. So, the Node pointed by the

slow ptr. will be  $\underline{n^{\text{th}}}$  Node from the end.

★ We remove it and then stitch back the remaining nodes.

