

Ques Reverse Pointers Iteratively



c
 n
 p

① Find next ($n = c \cdot n$)

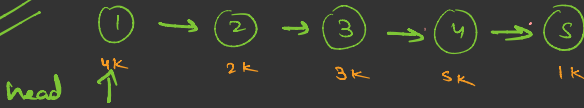
② $c \cdot next = p$

③ $p = c$

④ $c = n$

$head = p$

Ques Reverse Pointers Recursively



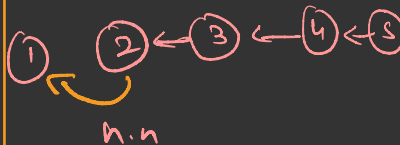
Expectation

Reverse PR (4K)



Faith

Reverse PR (2K)



Combine

Reverse PR ($n \cdot n$)

$n \cdot n \cdot n = h$

$n \cdot n = null$

Reverse PR(Node head) {

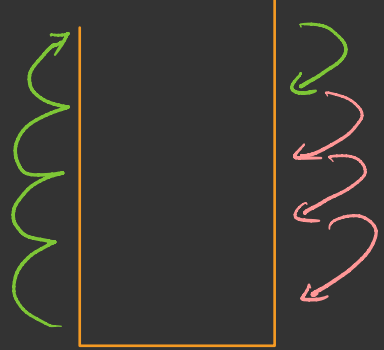
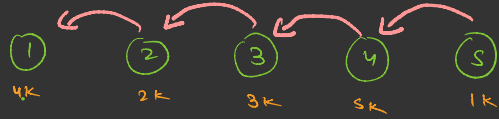
if(head.next == null)
return

Reverse PR(head.next)

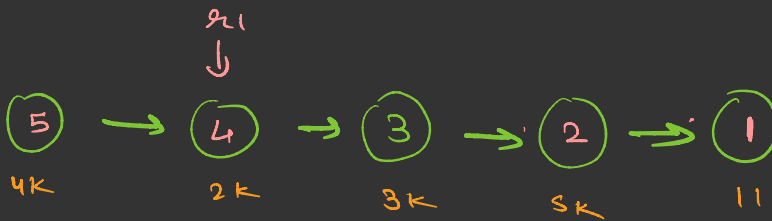
head.next.next = head

head.next = null;

}



Ques Reverse data Recursively

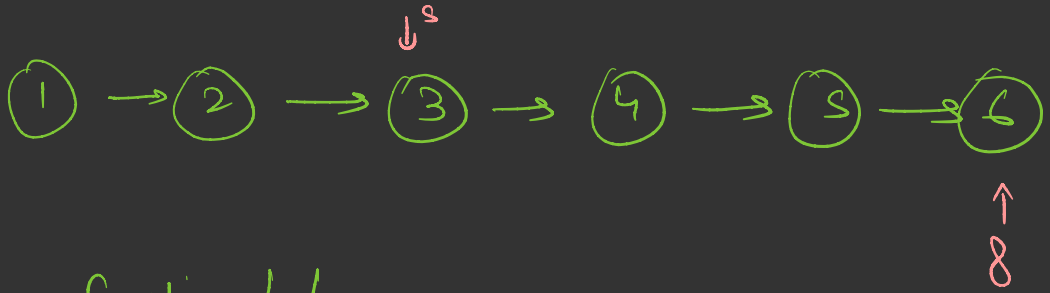


left

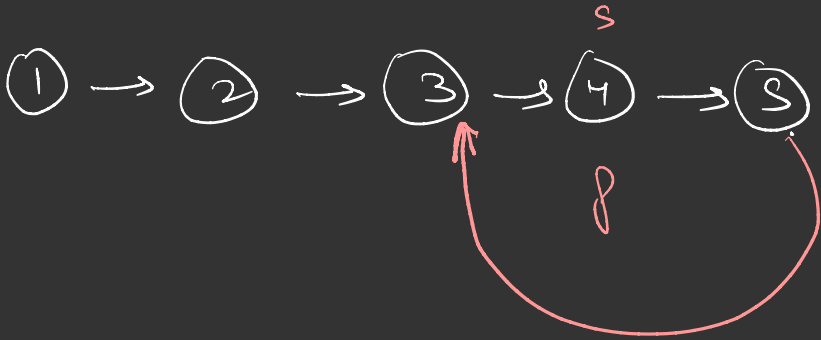
left < right

right

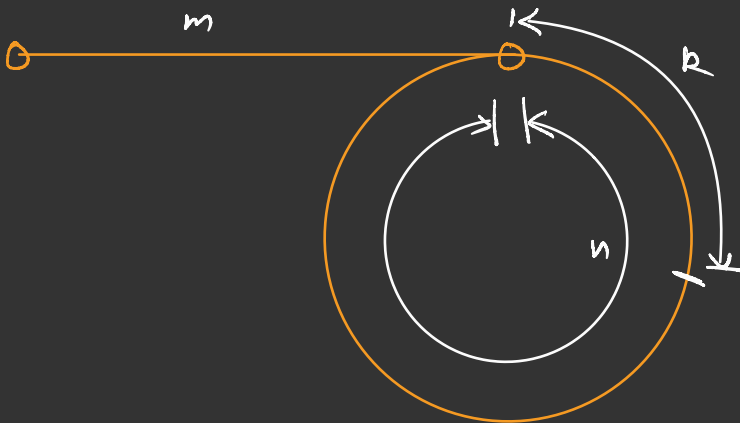
Ques Find mid node



Ques Cyclic LL



Ques starting point of cycle



dist travelled by $f = 2 \times$ dist travelled by slow

$$m + (i \times n) + k = 2 \times (m + (j \times n) + k)$$

$$i, j \geq 0 \quad m + (i \times n) + k = 2m + 2(j \times n) + 2k$$

$$in - 2jn = m + k$$

$$n(i - 2j) = m + k$$

$$A = i - 2j \quad An = m + k$$

$$m = An - k$$

Due Length of cycle