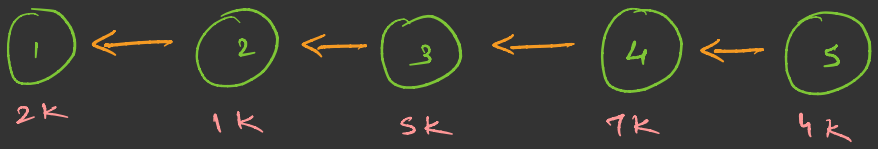
Reverse Data

Reverse Pointers



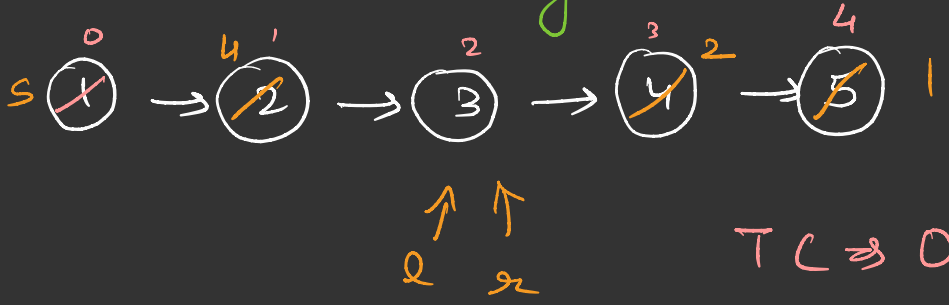
Reverse D I

Reverse D R

Reverse P I

Reverse P R

Reverse Data Iteratively

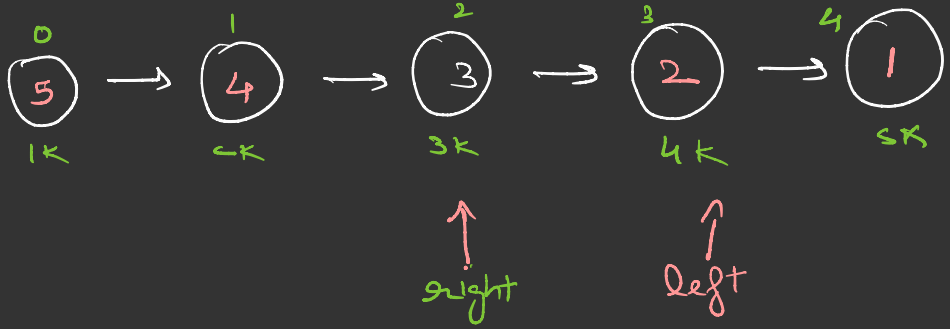


TC ⇒ O(n²)

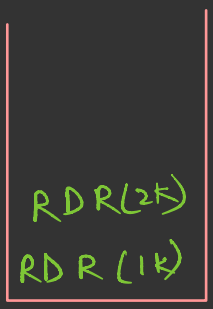
ri = 4/2

r >= size/2

Reverse Data Recursively

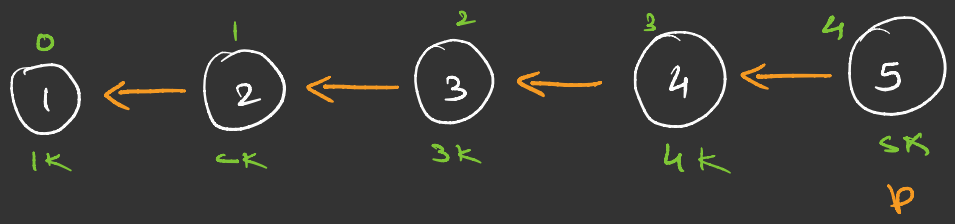



```
RDR(Node right, ri)
  if(r == null) return;
     RDR(right.next , ri+1)
     if(ri >= size/2) {
          swap(left , right)
     }
     l = l.next;
}
```



TC ⇒ O(n)

Reverse Pointer Iterative



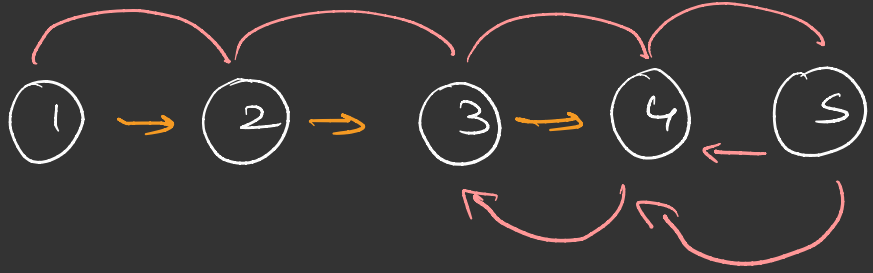
p = null
c = head
n = c.next

3 pointer approach

n = c.next
c.next = p

p = c
c = n

Reverse Pointer Recursive




```
RPR(Node n)
    if(n.next == null) return;
RPR(n.next)

n.next.next = n;
n.next = null;
```