

Sizc

Jun
J. FIFO

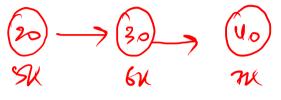
Devations

J. add

Serrore

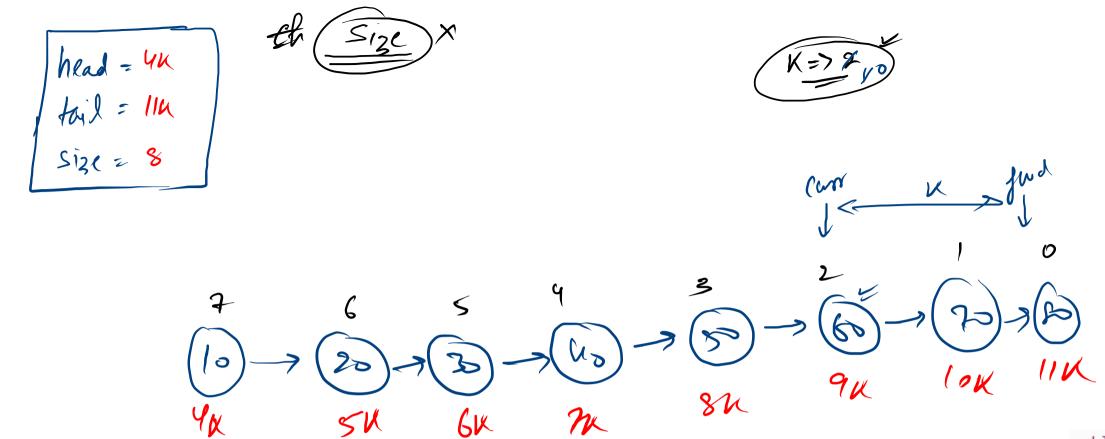
Pick

10/20/30/40



Padd > addlast remove > zemove First radd 20 ~add UO > Size nouse

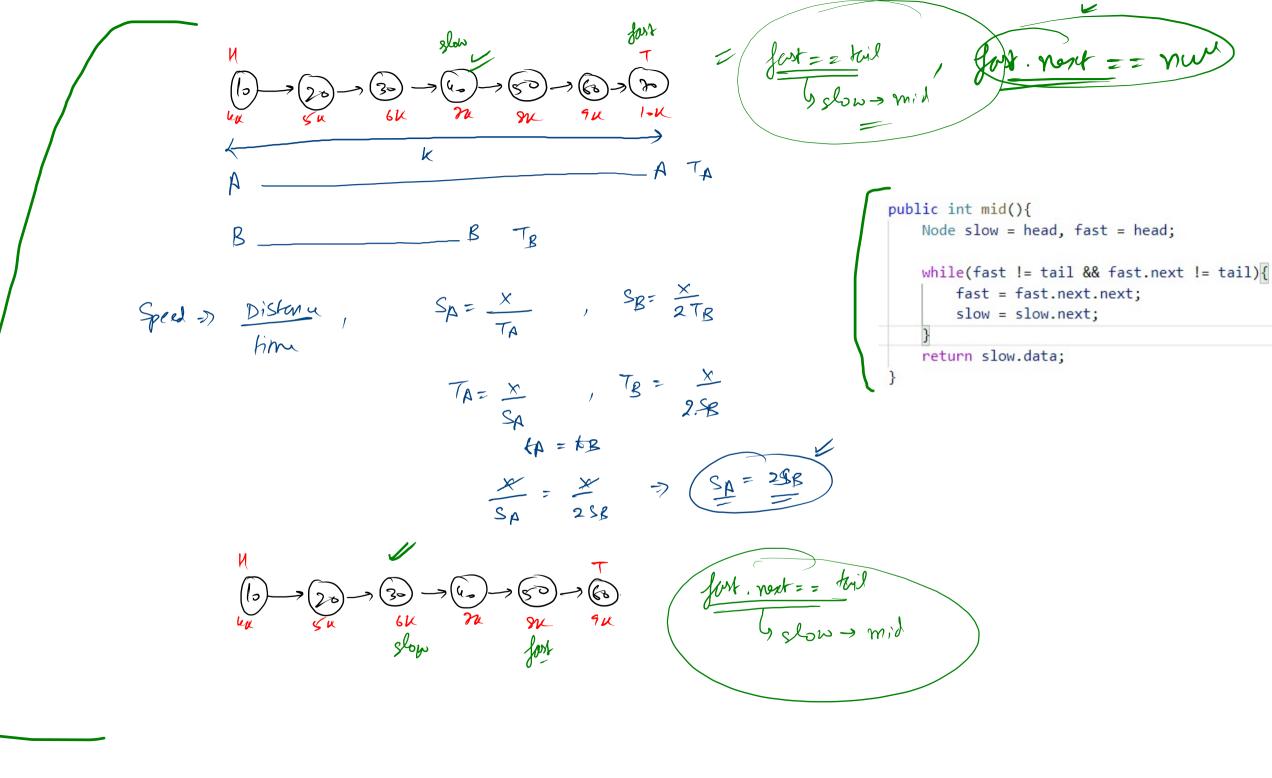
semon semon pek



```
public int kthFromLast(int k) {
  Node fwd = this.head;
  while (k > 0) {
    fwd = fwd.next;
    k--;
  }

  Node curr = this.head;
  while (fwd != tail) {
    fwd = fwd.next;
    curr = curr.next;
  }

  return curr.data;
}
```



Head tol Size - Ø

```
public void removeDuplicates(){
   LinkedList ll = new LinkedList();
   ll.addFirst(this.getFirst());

   while(this.size() > 0){
      if(ll.getLast() == this.getFirst()){
            this.removeFirst();
      }else{
            ll.addLast(this.getFirst());
            this.removeFirst();
      }
   }

   this.head = ll.head;
   this.tail = ll.tail;
   this.size = ll.size;
}
```

his fail > n

Size > 0

Odd-Sim

H. W.

hear our when size of size

Head Toil

1) -3 -> (5) -> (9)

14 SV W M SV

Emm foil - 1324

Size - 5

19ed 100 -> (3) -> (5) -> (10) 900 100 110 100 1300 40dd, size () ====

this head = Even head this tail = Even fail this size = Even size

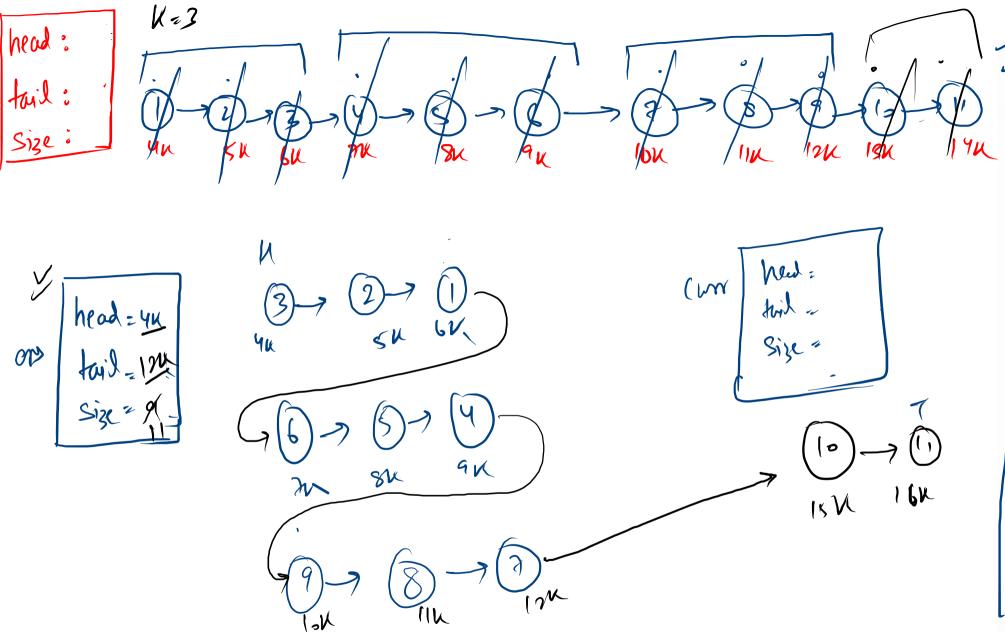
this. head = odd. head
this. teil = odd. tail
this. size = odd. size

odd. size! = o kk exer. size! = odd. tail. next = even. head

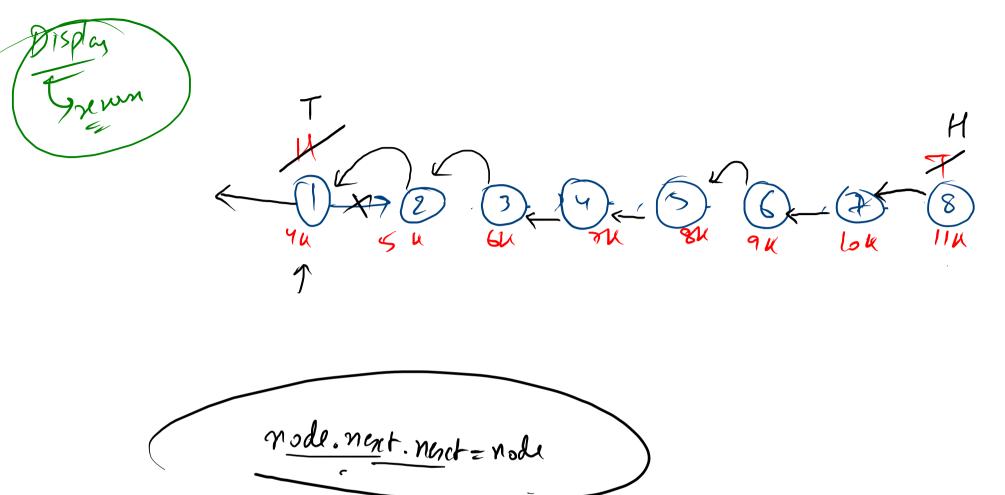
this head = odd. head

this tail = even. tail

this size of D. sixtersize



```
LinkedList ans = new LinkedList();
LinkedList curr = new LinkedList();
 while (this.size() > 0) {
  ,if (this.size() >= k) {
     // grouping possible
     int i = 1;
     while (i <= k) {
       curr.addFirst(this.getFirst());
       this.removeFirst();
       i++;
     else {
     while (this.size() > 0) {
       curr.addLast(this.getFirst());
       this.removeFirst();
   if (ans.size() == 0) {
     ans = curr;
     else {
     ans.tail.next = curr.head;
     ans.tail = curr.tail;
     ans.size += curr size;
   curr = new LinkedList();
```



nu ]	2
10K	2
- on	7
8W	1
W	12
(V	1
SV	
Yu	