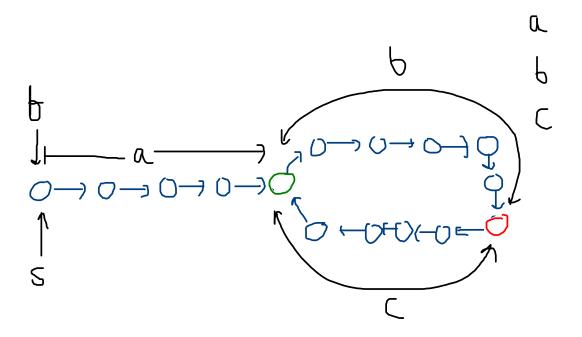


after meet of S and F

Reset slow to head

move both by one one



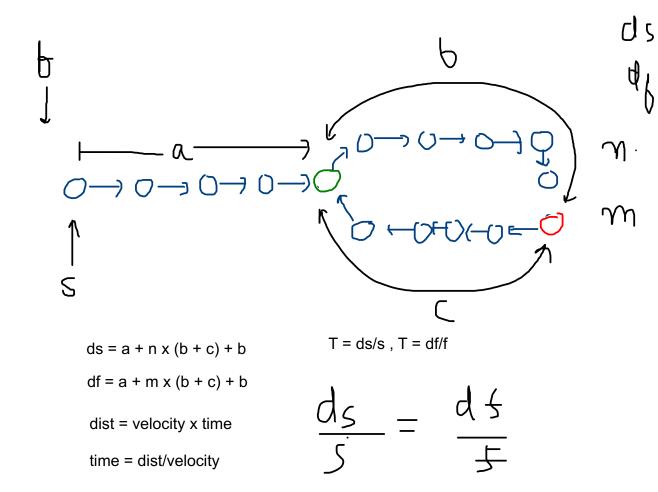
Cyclic point

fast and slow meets first time

distance b/w head and green

distance from green to red

distance from red to green



distance travel by S to reach red from head

distance travel by F to reach red from head

number of rotations S take before meeting of F pointer

number of rotations F take before meeting of S pointer

$$d \Rightarrow = \frac{1}{2} ds$$

$$= \int \alpha + \beta = \frac{(2d-1)}{(2m-2m-1)}$$

$$= \int_{\mathbb{R}^{n}} \frac{(\lambda^{n} + \lambda^{n})}{(\lambda^{n} + \lambda^{n})} = \int_{\mathbb{R}^{n}} \frac{(\lambda^{n} + \lambda^{n})}{(\lambda^{n} + \lambda^{n})}$$

$$\frac{\Im z}{5}$$

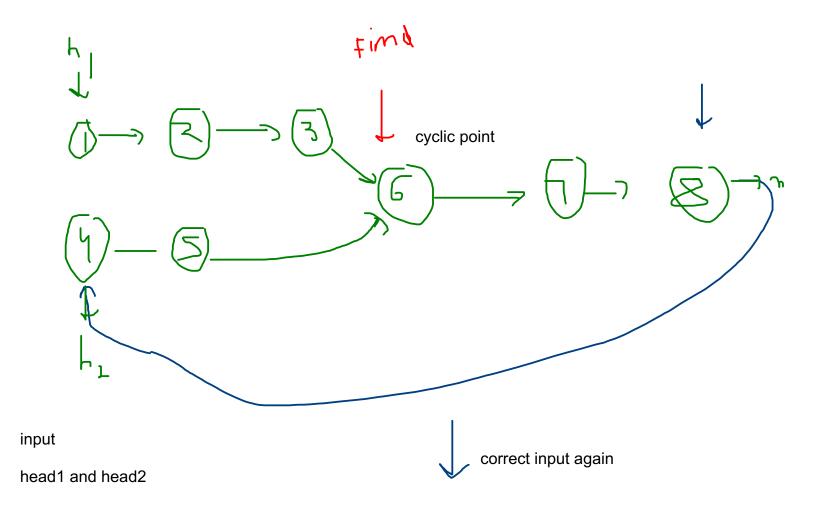
$$f = p \times s, p = 2, p \rightarrow R+, p != 0$$

best --> s will cover total of 0 rotation

$$\frac{(1-1)}{(1-1)}$$

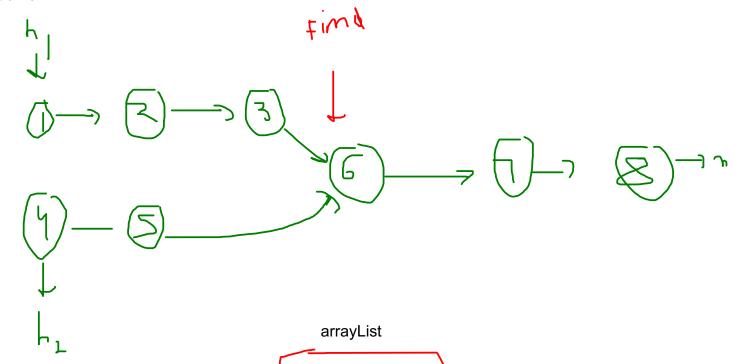
$$\alpha + \beta = \frac{(1-1)}{(1-1)}$$





Intersection of LL





input

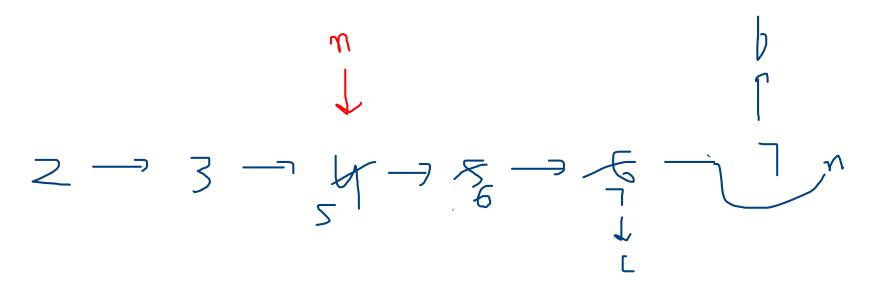
head1 and head2

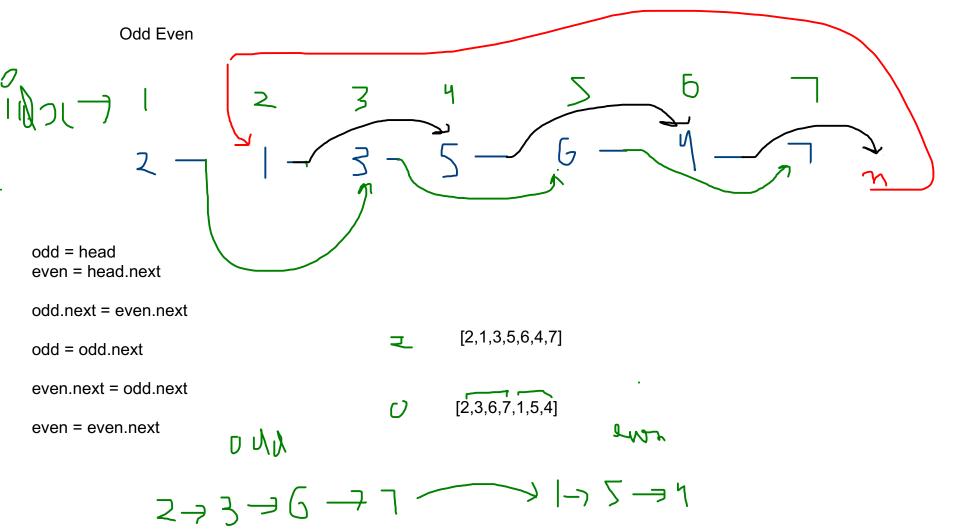
$$|P| \longrightarrow 2 \longrightarrow 3 \longrightarrow 4 \longrightarrow 5$$

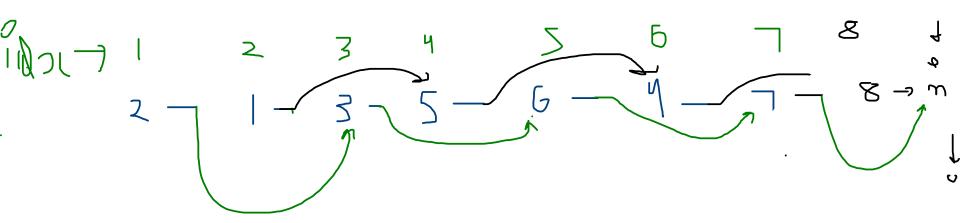
```
curr = head
while(curr != null) {
    temp = curr
```

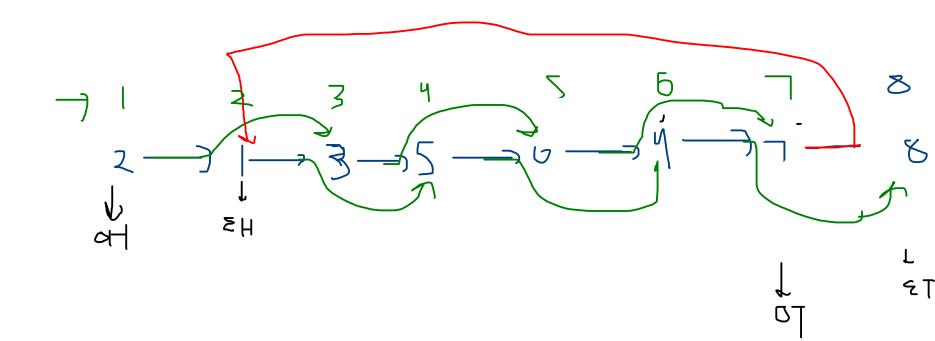
remove a node in LL

head is not given, remove node is given









oddT = head evenT = head.next

while(even != null && even.next != null) oddT.next = evenT.next

oddT = oddT.next

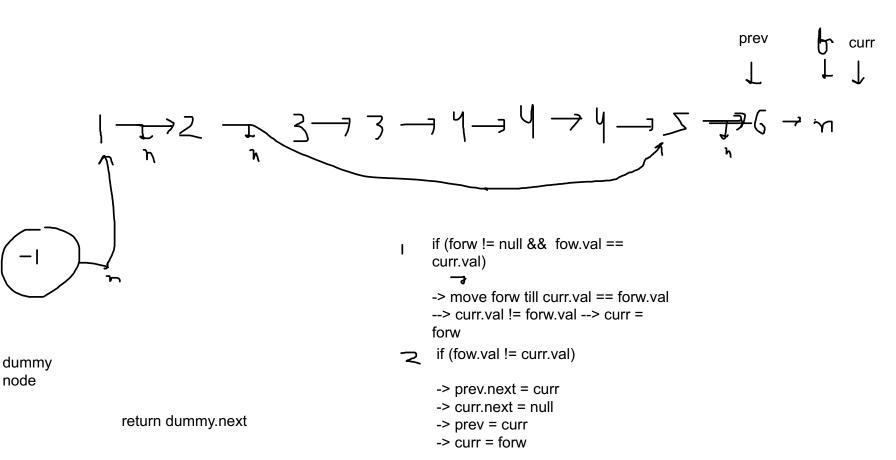
evenT.next = oddT.next

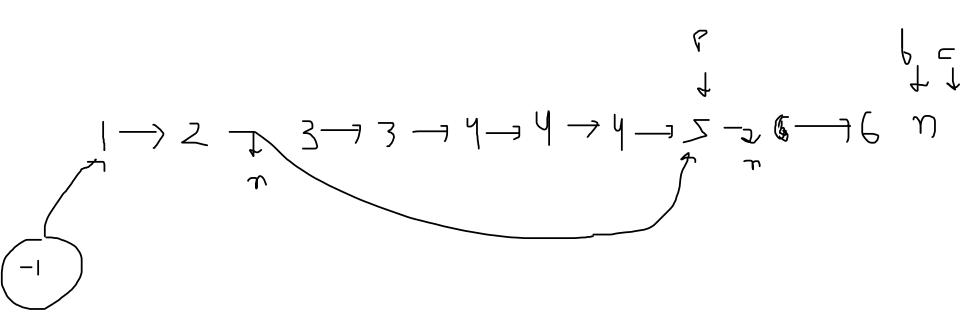
evenT = evenT.next

till prev LL do not contain any Duplicates

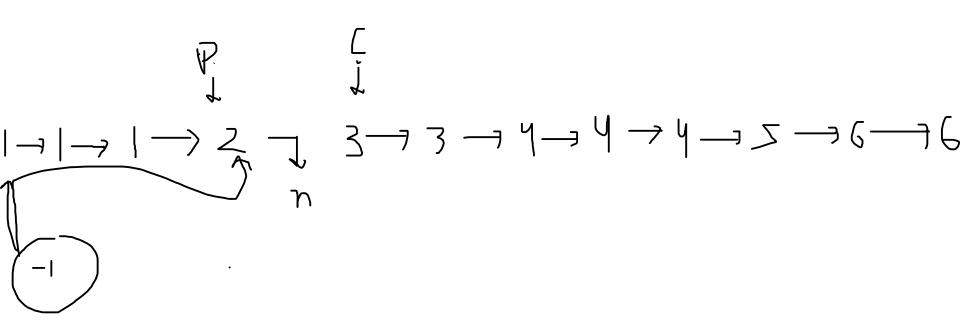
dummy = new node prev = dummy curr = head

Case1





dummy node

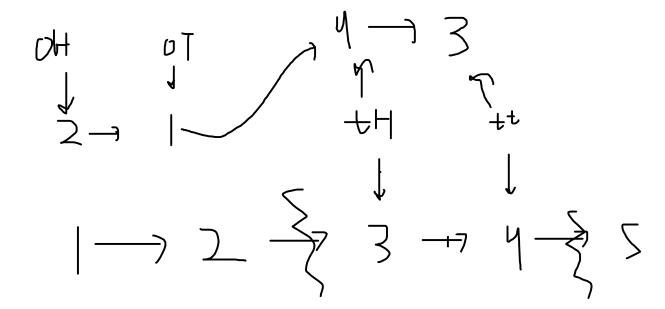


dummy node

$$| \longrightarrow 2 \longrightarrow 3 \longrightarrow 4 \longrightarrow 5 \longrightarrow 6$$

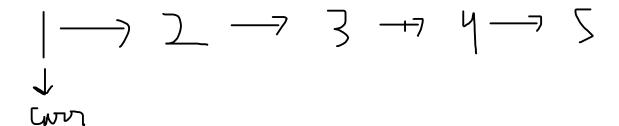
$$3 \longrightarrow 2 \longrightarrow 1 \longrightarrow 5 \longrightarrow 6$$

$$4 \longrightarrow 3 \longrightarrow 2 \longrightarrow 1 \longrightarrow 5 \longrightarrow 6$$



k = 2

K-2



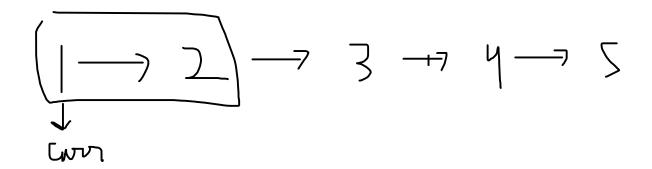
orig --> my ans --> reversed in k groups origHead = null origTail = null

temp --> to reverse part of list which k nodes tempHead = null tempTail = null count total Nodes = 6

curr = head

tempCount = k = 2

while tempCount > 0



 $\mathcal{F}\mathcal{F}$

count total Nodes = 6

curr = head

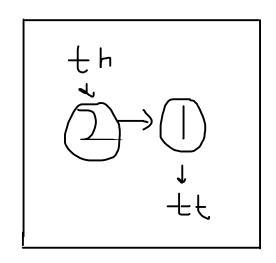
tempCount = $\underline{k} = \lambda$

reverse them by passing each node in addFirst

count total Nodes = 5

curr = head

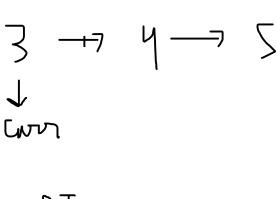
while(curr != null)

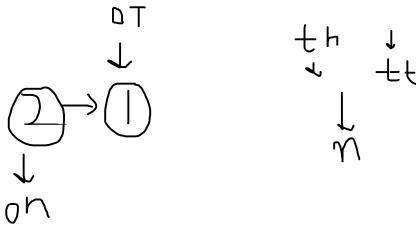


curr = head

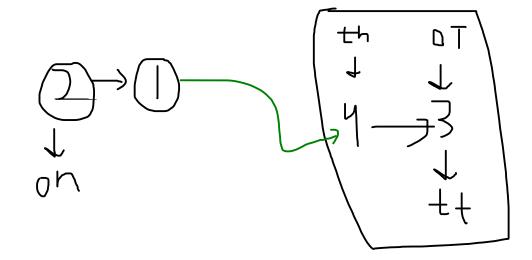
while(curr != null)

th = null tt = null





--> tempCount = k =
$$\frac{1}{2}$$
 $\frac{1}{2}$ $\frac{1}{2}$ tempCount > 0 --> curr.next = null addFirst(curr) curr = forw



count < k

return oh

count total Nodes = 8 3 curr = head

while(curr != null)

--> tempCount = k = tempCount > 0 --> curr.next = null addFirst(curr) curr = forw

if (oh == null) \rightarrow oh = th, ot = tt if (oh != null) --> ot.next = th, ot = tt

th = null tt = null

