⊕ Reverse (Data Iterative) a linked List
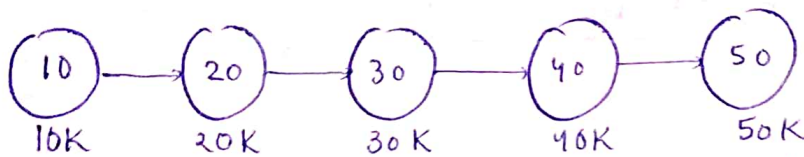
Hume ek linkedlist milegi, usko Reverse krna hai!
iteratively krna hai!

head: 10K
tail: 50K
Size: 5

10 — 20 → 30 → 40 → 50
10K   20K   30K   40K   50K

→ jo class ke bahar se call nahi ki jaty

A Hume data property ko hath lagana hai, next property ko nahi!

≠ Hume ek **private function** likhengy!

```
private Node getNodeAt(int idx){
    Node temp = head;
    for(int i=0; i< idx; i++){
        temp = temp.next;
    }
    return temp; }A
}
```

→ Yeh bilkul **getAt** ki trah hai pr issme **return temp** hoga! **return temp.data** nahi!

```
public void reverseOIL(){
    int li = 0;
    int ri = size-1;
```

≠ Hum **left (li)** pe index rakta hu aur ek **right pe index (ri)** rakta hu!

~~while loop~~

```
@ while(li < ri){
    Node left = getNodeAt(li);
    Node right = getNodeAt(ri);
    int temp = left.data;
    left.data = right.data;
    right.data = temp;

    li++;
    ri--;
}
}
```

head: ~~10K~~ 10K
tail: ~~50K~~ 50K
Size: 5

li   ri

(50/10) → (40/20) → (30/30) → (20/40) → (50/10)
   10K   20K   30K   40K   50K

li   li   ⇓   ri   ri

(50) → (40) → (30) → (20) → (10)
 10K   20K   30K   40K   50K