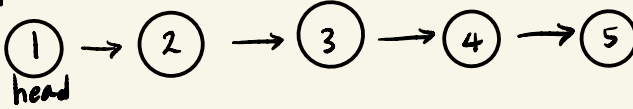


# 206. Reverse Linked List.

Input

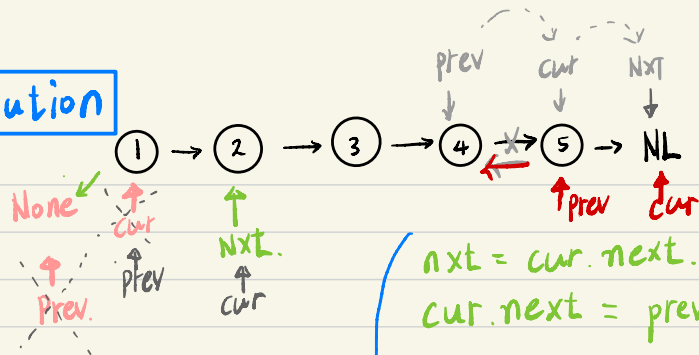


Q. SLL를 뒤집어라.

Output



i) Iterative solution



∴ return prev.

$next = cur.next$   
 $cur.next = prev$   
 $prev = cur$   
 $cur = next$

Intuition.  
Swap of

Triple pointer

~~Use dummy node~~

cycle of linked list

dummy → 1 ← 2 ← 3 ← 4 ← 5 → NL  
cycle of linked list.

prev, cur = None, head  
while cur != None:

next = cur.next

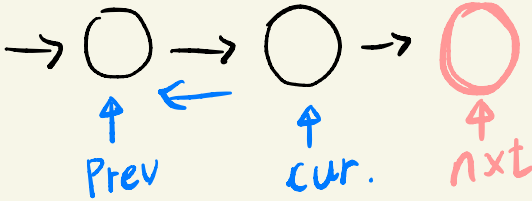
cur.next = prev

prev = cur

cur = next

01011... recursive solution

⇒ 비분할적으로 만들기. ↴



Base case

If. not cur :

return ~~None~~. prev

next = cur.next.

cur.next = prev.

- i) return 값 head로  
변경됨으로  
base case의 반환값  
None이 어느 prev로.
- ii) 재귀식 비분할적으로  
서 포인터를 가리키는  
서 노드로 그려 보았는지.

def reverseList ( head ) :

```
def reverse ( prev, cur ) :
```

```
    if not cur :
```

```
        return prev
```

```
    next = cur.next
```

```
    cur.next = prev.
```

```
    return reverse ( cur, next )
```

```
return reverse ( None, head )
```