2708 - I2P(I)2022_Yang_final_practice

Scoreboard (/contest/scoreboard/2708/)

Time		
2022/12/21 20:00:00	2days, 07:57:08	2023/01/10 18:30:00

Clarification						
# Problem	Asker	Description	Reply	Replier	Reply Time	For all team

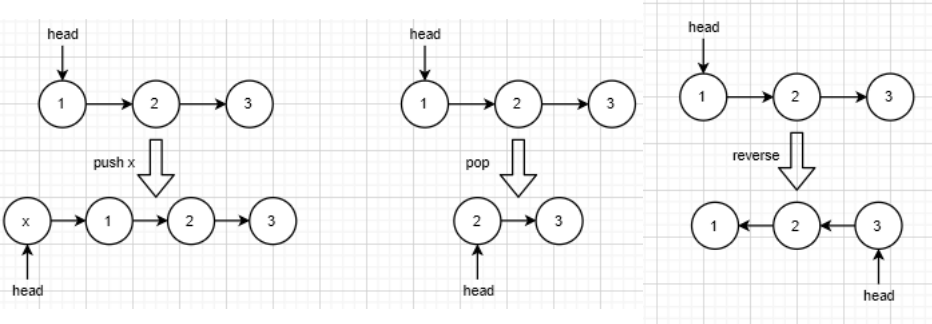# 12568 - Reverse Linked List ver 2

Description

Given several operations, `push x`, `pop`, `print`, `reverse`, create a linked list dynamicly.

- push x: Add one Node (with data = x) at the front of linked list.
- pop: Delete the Node at the front of linked list.
- reverse: reverse the current linked list
- print: output the linked list in given format.

You have to implement 3 functions:

```
1. void Push(Node** ptr_head,int x)
2. void Pop(Node** ptr_head)
3. void Reverse_List(Node** ptr_head)
```

Note: Modify the `Node* head` by `Node** ptr_head`

Input

There're operations on several lines.
All operations are one of `push x`, `pop`, `print`, `reverse`.
It's guaranteed that:

- Number of operations is less than 5,000,000
- Integer x is in $[-1000,1000]$
- The maximum length of linked list is less than 10,000.

Output

Output the linked list for every `print`.

Sample Input

Download (data:text/plain;charset=utf-8,push%201%0D%0Apush%202%0D%0Aprint%0D%0Areverse%0D%0Aprint%0D%0Apop%0D%0Aprint%0D%0Apush%206%0...

```
push 1
push 2
print
reverse
print
pop
print
push 6
push 6
push 6
print
reverse
print
pop
pop
pop
pop
pop
pop
pop
pop
print
push 9
print
```

Sample Output

Download (data:text/plain;charset=utf-8,2%20-%3E%201%0D%0A1%20-%3E%202%0D%0A2%0D%0A6%20-%3E%206%20-%3E%206%20-%3E%202%0D%0A2%

```
2 -> 1
1 -> 2
2
6 -> 6 -> 6 -> 2
2 -> 6 -> 6 -> 6

9
```

Partial Judge Code

12568.c (/problem/partial/12568.c/)

Partial Judge Header

12568.h (/problem/partial/12568.h/)

Discuss