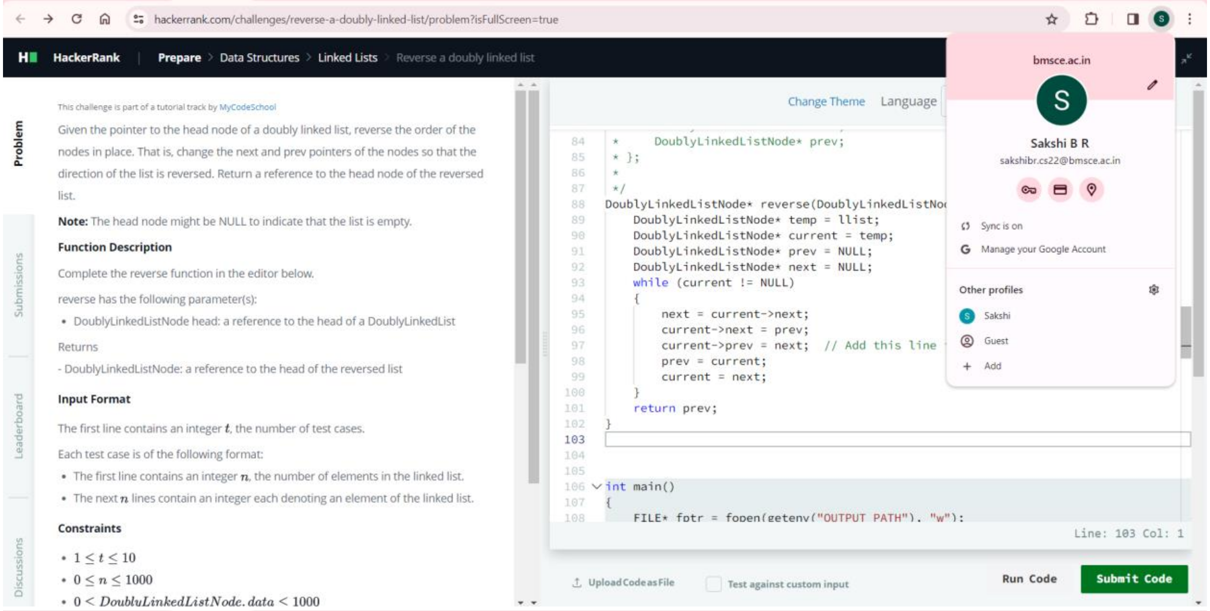
Hacker Rank Challenge: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This challenge is part of a tutorial track by MyCodeSchool

Given the pointer to the head node of a doubly linked list, reverse the order of the nodes in place. That is, change the next and prev pointers of the nodes so that the direction of the list is reversed. Return a reference to the head node of the reversed list.

Note: The head node might be NULL to indicate that the list is empty.

Function Description

Complete the reverse function in the editor below.

reverse has the following parameter(s):

- DoublyLinkedListNode head: a reference to the head of a DoublyLinkedList

Returns

- DoublyLinkedListNode: a reference to the head of the reversed list

Input Format

The first line contains an integer t, the number of test cases.

Each test case is of the following format:

- The first line contains an integer n, the number of elements in the linked list.
- The next n lines contain an integer each denoting an element of the linked list.

Constraints

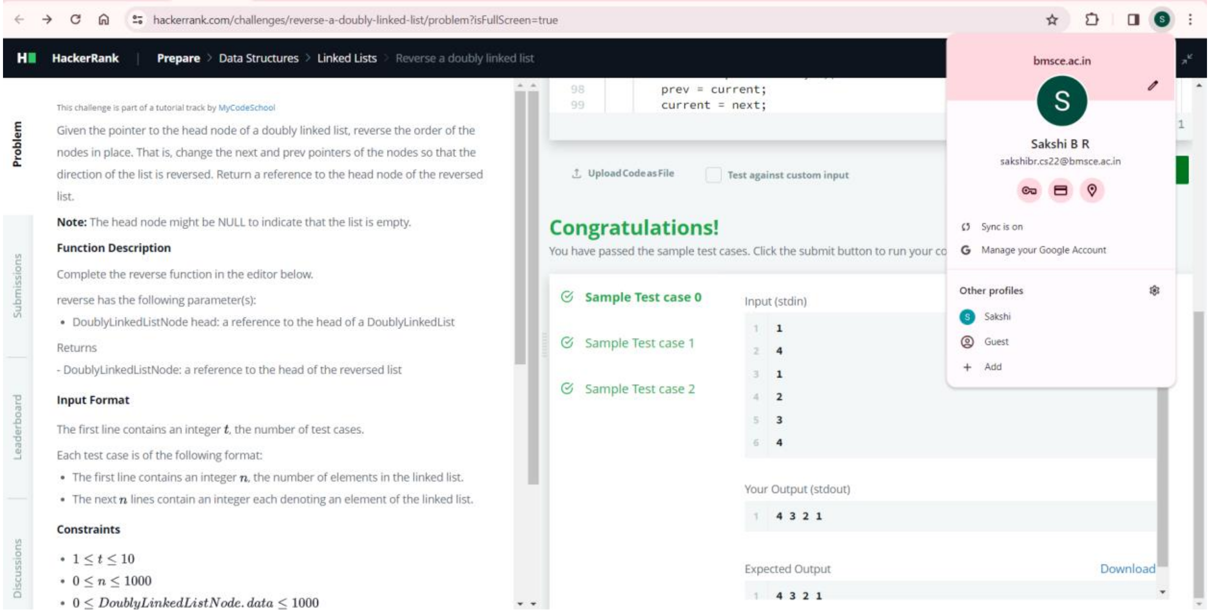
- $1 \leq t \leq 10$
- $0 \leq n \leq 1000$
- $0 < DoubluLinkedListNode.data < 1000$

```
 *     DoublyLinkedListNode* prev;
 * };
 *
 */
DoublyLinkedListNode* reverse(DoublyLinkedListNo
    DoublyLinkedListNode* temp = llist;
    DoublyLinkedListNode* current = temp;
    DoublyLinkedListNode* prev = NULL;
    DoublyLinkedListNode* next = NULL;
    while (current != NULL)
    {
        next = current->next;
        current->next = prev;
        current->prev = next;  // Add this line
        prev = current;
        current = next;
    }
    return prev;
}



int main()
{
    FILE* fptr = fopen(getenv("OUTPUT_PATH"), "w");
```

Line: 103 Col: 1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```
        prev = current;
        current = next;
```

Congratulations!

You have passed the sample test cases. Click the submit button to run your co

✓ Sample Test case 0

✓ Sample Test case 1

✓ Sample Test case 2

Input (stdin)

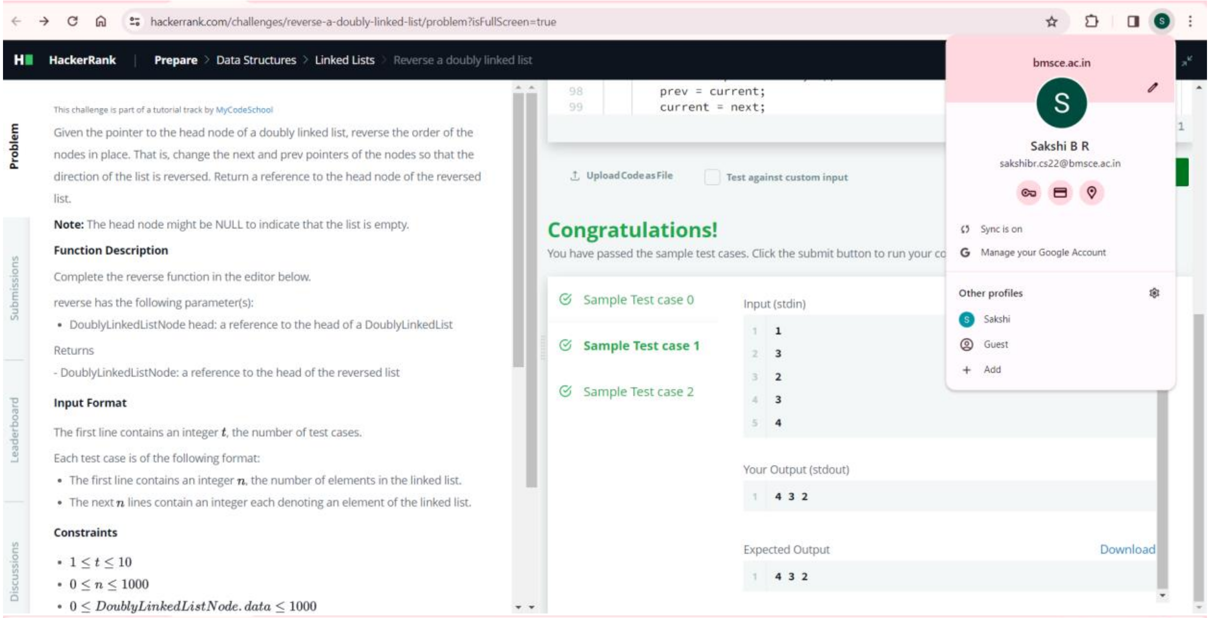
```
1
4
1
2
3
4
```

Your Output (stdout)

```
4 3 2 1
```

Expected Output

```
4 3 2 1
```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✓ Sample Test case 1

✓ Sample Test case 2

Input (stdin)

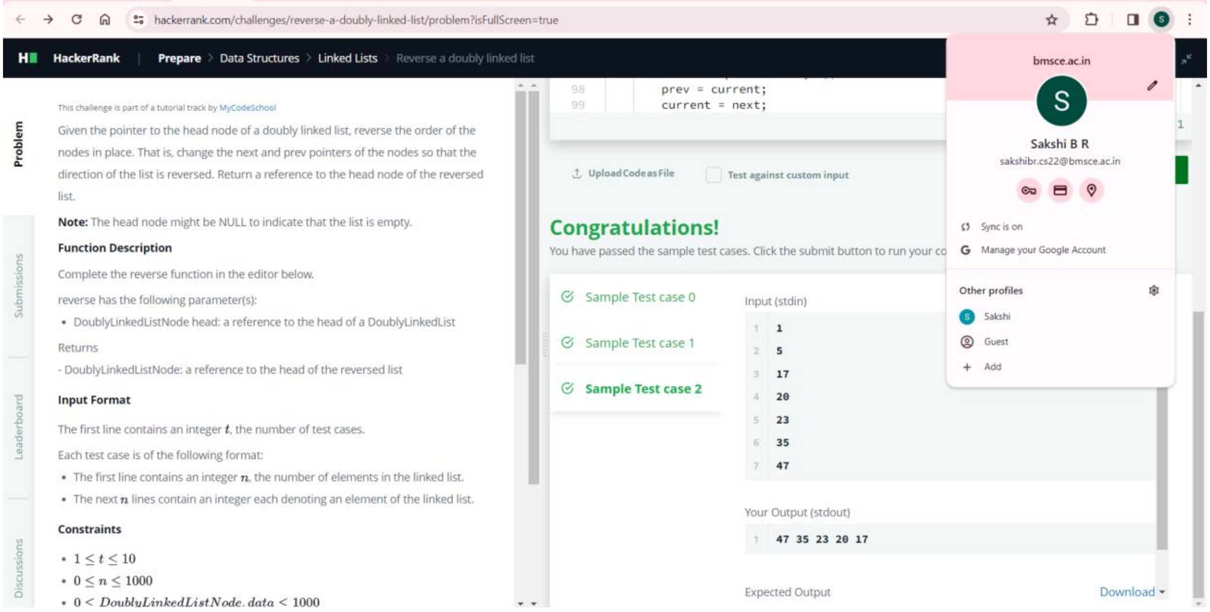
```
1
3
2
3
4
```

Your Output (stdout)

```
4 3 2
```

Expected Output Download

```
4 3 2
```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✓ Sample Test case 0

✓ Sample Test case 1

✓ Sample Test case 2

Input (stdin)

```
1
5
17
20
23
35
47
```

Your Output (stdout)

```
47 35 23 20 17
```

Expected Output Download