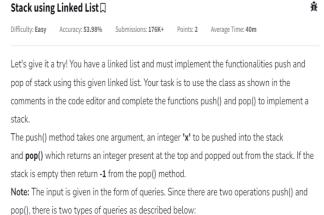
# ADVANCED PROGRAMMING LAB – ASSIGNMENT 6

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## Ques 1 Implement Stack using Linked List



(i) 1 (a query of this type takes **x** as another parameter and pushes it into the stack)

(ii) 2 (a query of this type means to pop an element from the stack and return the popped element)

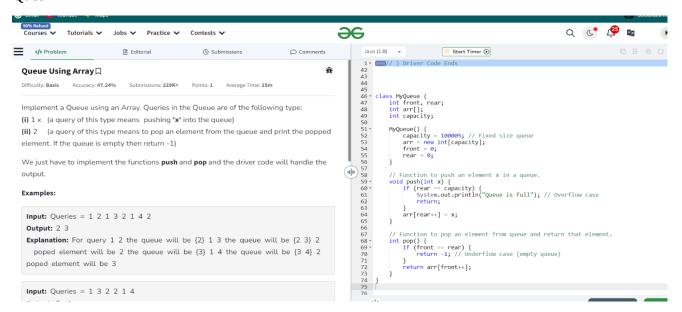
Input is separated by space and as described above.

#### Examples:

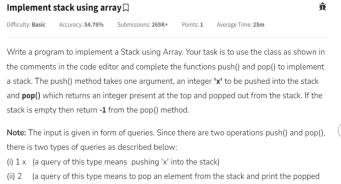
```
Input: [[1,2], [1,3], [2], [1,4], [2]]
Output: [3, 4]
```

```
1' | | briver code End:
    50
    51 * class MyStack {
    52
                Node class for the stack
             class StackNode {
    53 •
    54
                  int data;
    55
                  StackNodé next;
    56 °
                  StackNode(int a) {
                      data = a;
    58
                      next = null;
    59
60
    61
             StackNode top;
    63
64
             // Function to push an integer into the stack.
40
    65 *
                 StackNode newNode = new StackNode(a);
newNode.next = top;
    66
67
    68
                 top = newNode;
    69
    70
    71
72 *
             // Function to remove an item from top of the stack.
             int pop() {
    73 ×
74
                 if (top == null) {
    return -1; // Stack is empty
    75
    76
77
78
                  int poppedValue = top.data;
                 top = top.next;
                 return poppedValue;
    79
   80 }
    81
                                                                              Compile & Run
```

## Ques 2



# Ques 3

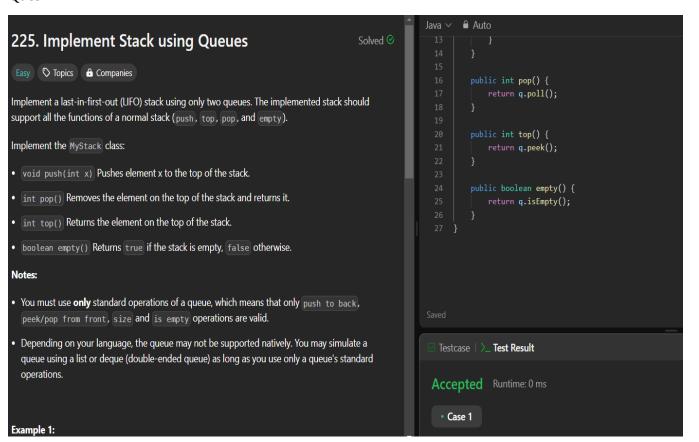


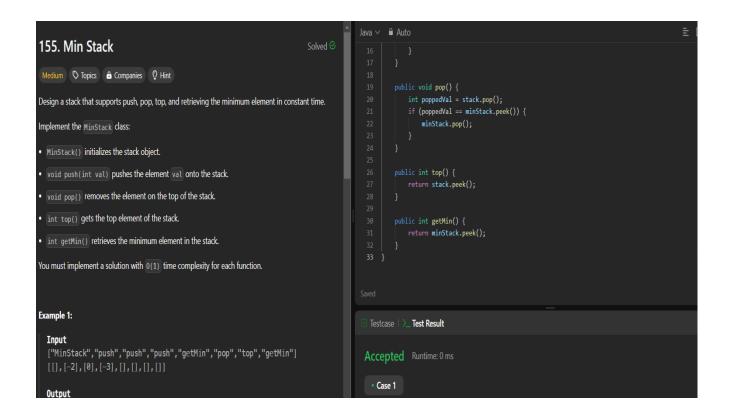
#### Examples:

```
Input: 1 2 1 3 2 1 4 2
Output: 3, 4
Explanation:
```

Input contains separated by space and as described above.

# Ques 4





## Ques 6

