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- EASY
- Max Score: 30 Points
-

Implement Queue using stacks

Implement Queue using two queue `s1` and `s2`. You need to complete the push and pop function of Queue class. You are given 2 types of query `1` for push an integer into queue and `2` for enqueue the value from the queue and print.

Input Format

First line contains `q` of queries.

Followed by `q` lines.

Query of type `1` is followed by an integer `x` to push element in the queue.

Query of type `2` is for dequeue the last value from the queue and print.

Output Format

Print the value for dequeue operations in the query given.

Example 1

Input

```
5
1 2
1 3
2
1 4
2
```

Output:

```
2 3
```

Explanation

First we push 2 , then for second query we push 3, for third query we dequeue 2 and print, for 4th query we push 4 and for 5th query we dequeue 3 and print.

Example 2

Input

```
3
2
1 2
2
```

Output:

```
-1 2
```

Explanation:

In the first query we don't have any element but we use dequeue query so we print -1, in the 2nd query we push 2 and in the 3rd we dequeue 2 and print 2.

Constraints

```
1 <= Total number of queries <= 100
```

```
1 <= value in each query <= 100
```

Topic Tags

- Queues
- Stacks

My code

```
// in java
import java.io.*;
import java.util.*;

class StackQueue
{
        Stack<Integer>st;
        Stack<Integer>st2;
        public StackQueue()
        {
                st=new Stack<>();
                st2=new Stack<>();
        }
    //Function to push an element in queue by using 2 stacks.
    void Push(int x)
    {
          //Write your code here
              st.push(x);

    }
    //Function to pop an element from queue by using 2 stacks.
    int Pop()
    {
          //Write your code here
              while(!st.isEmpty())
                    {
                    st2.push(st.pop());
                    }
              if(st2.isEmpty())
```

```
                return -1;
            int r=st2.pop();

            //re areng
                while(!st2.isEmpty())
                {
                st.push(st2.pop());
                }
            return r;
        }
}
public class Main {
    public static void main(String args[]) throws IOException {
        Scanner sc = new Scanner(System.in);
        StackQueue s = new StackQueue();
        int q = sc.nextInt();
        ArrayList<Integer> ans= new ArrayList<>();
        while(q>0)
        {
            int QueryType = sc.nextInt();
            if(QueryType == 1)
            {
                int a = sc.nextInt();
                s.Push(a);
            }
            else if(QueryType == 2)
            ans.add(s.Pop());
        q--;
        }
        for(int x:ans)
        System.out.print(x+" ");
     System.out.println();
```

```
    }
}
```