#### **Problem 11: Queue Machine**

#### Statement

Harry, Ron, and Hermione went to the Three Broomsticks pub to take a break from homework and fighting evil. Unfortunately, the service wasn't as excellent as they expected, So they contacted the manager to propose a better way to manage the pub, a queue machine that works as follows:

1 - Order a ticket: Add the number of ticket to the queue

Input: NEW

2 - Cancel the order: Delete the number of the order from the queue.

Input: CANCEL nb\_of\_order

3 - Consult the first customer in the queue: Print the first ticket of the queue.

Input: SHOW FIRST

output: nb\_of\_first\_order\_in\_the\_queue

4 - Consult the last customer in the queue: Print the last ticket of the queue.

Input: SHOW LAST

output: n\_of\_last\_order\_in\_the\_queue

5 - Consult all the customers in the queue: Print all tickets in the queue.

**Input: SHOW ALL** 

output: Print all the queue

6 - Pass to the next costumer: Pop the first customer from the queue.

Input: NEXT.

#### Note:

- Print an empty queue as 0.
- There won't be any special cases like canceling an order while the queue is empty.

## Input

The first line  $\mathbf{n}$ , denoting the number of commands.

The next n lines, where each one contains a command.

## Output

Based on the commands entered (check the command list).

# Example

Input	Output
17	123
NEW	2 3 4 5
NEW	3
NEW	6
SHOW ALL	0
NEXT	
NEW	
NEW	
SHOW ALL	
NEXT	
CANCEL 4	
SHOW FIRST	
NEW	
SHOW LAST	
NEXT	
NEXT	
NEXT	
SHOW ALL	