## **Queue Simulation**

Time limit: 5 sec.
Memory limit: 64MB

## Description

You know queue? Now it's time to implement one.

You will be given q queries about queue. There are 3 types of query.

- Type 1(Push): Given an integer v, "push" the integer to the queue.
- Type 2(Pop): "pop" out one integer from the queue. If the queue was empty, do nothing instead.
- Type 3(Front): Print the integer at the "front" of the queue. If the queue was empty, print "EMPTY" instead. *Note that this query does not modify the elements of the queue.*

### <u>Input</u>

The first line of the input contains a single integer q, the number of queries.  $(1 \le q \le 100000)$ 

The i-th line of the next q line of the input consists of the following:

- The first integer of the line is t\_i, the type of the ith query. (t\_i = 1 or 2 or 3).
- If t\_i = 1, another integer v\_i will be given in the line,

separated by whitespace.  $(-10^9 \le v_i \le 10^9)$ 

It is guaranteed that there is at least one query of type 3.

#### **Output**

For every query of type 3, print the appropriate integer or string as stated on the description section, in a new line.

# Sample I/O

Input(s)	Output(s)
13	23
1 12	34
1 23	34
1 34	EMPTY
2	45
3	
2	
3	
3	
2	
2	
3	
1 45	
3	