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# Queue

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## Queue

2.0/2.0 points (graded)

| | |
|---|---|
| Input file: | queue.in |
| Output file: | queue.out |
| Time limit: | 2 seconds |
| Memory limit: | 256 megabytes |

Implement a queue which supports push and pop operations. For every pop operation, output its result.

**Input**

The first line of the input file contains a single integer number N ($1 \leq N \leq 10^6$) – the number of commands. N lines follow, each line contains exactly one command. There are the following commands:

- + x: push x to the queue. Every x will be an integer such that $|x| \leq 10^9$. The symbol + and the number will be separated by exactly one white space.
- −: pop an element from the queue. It is guaranteed that this operation will never be executed on an empty queue. There will be at least one such operation.

**Output**

Output the integers popped from the queue, one per line, in the order they were popped.

**Example**

| queue.in | queue.out |
|---|---|
| 6<br>+ 1<br>+ 10<br>- | 1<br>10 |

| | |
|---|---|
| + 2<br>+ 1234<br>- | |
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**Topic:** 04: 2nd Week Problems / Queue

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