

ITMOx: I2CPx How to win coding competitions: secrets of champions

Help



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- Week 1
- ▼ Week 2

Computational Complexity. Linear **Data Structures**

2nd Week **Problems**

due Nov 14, 2016 22:00 **CET**

2nd Week **Problems: Training**

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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 10⁶) – the number of commands. N lines follow, each line contains exactly one command. There are the following commands:

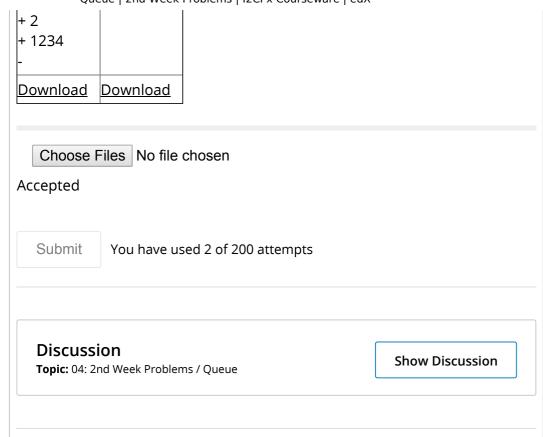
- + x: push x to the queue. Every x will be an integer such that $|x| \le 10^9$. The symbol + and the number will be separated by exactly one white space.
- -: pop an element from the queue. It is guaranteed that this operation will never be executed on an empty queue. There will be at least one such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

Output

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

Example

queue.in	queue.out
6	1
+ 1	10
+ 10	
_	



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