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

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How To?

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Week 2

Computational Complexity. Linear Data Structures

2nd Week Problems
due Nov 14, 2016 22:00 CET

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Stack

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Stack

2.0/2.0 points (graded)

Input file:	stack.in
Output file:	stack.out
Time limit:	2 seconds
Memory limit:	256 megabytes

Implement a stack 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 stack. 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 stack. It is guaranteed that this operation will never be executed on an empty stack. There will be at least one such operation.

Output

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

Example

stack.in	stack.out
6 + 1 + 10 -	10 1234

+ 2 + 1234 -	
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