



DAY HRS MIN SEC

January Circuits '17

LIVE

Jan 20, 2017, 09:00 PM IST - Jan 28, 2017, 09:00 PM IST

INSTRUCTIONS PROBLEMS SUBMISSIONS LEADERBOARD ANALYTICS JUDGE

← Problems / Convoluted Operations

Convoluted Operations

Max. Marks: 100

Mishki is quite interested in playing games, and recently she found an empty stack. Now she wants to perform 3 types of operations on the stack:

- 1) 1 A: push element A in the stack.
- 2) 0: pop one element from stack.
- 3) $2\ K\ X$: find how many elements were less than X present in the stack, after performing K^{th} operation on the stack.

Can you help her in performing the above operations?

Input:

The first line contains an integer N, denoting the number of operations.

Next N line contains, any of the 3 types of operations mentioned above, where i^{th} line contains the i^{th} operation.

Output

Print the required answer for each of the 3^{rd} type of operation, in new line.

Constraints:

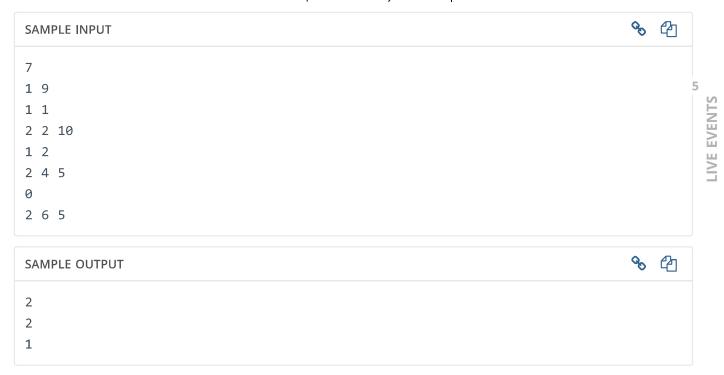
$$1 \le N \le 5 imes 10^5$$

$$0 \le A, X \le 10^9$$

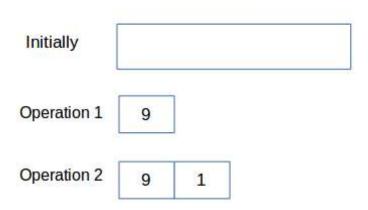
$$1 \leq K \leq N$$

Notes:

- 1) No pop operation will be given for an empty stack.
- 2) Let's say, you are performing i^{th} operation on the stack and it is of 3^{rd} type, then the given K will always be less than i.
- 3) There will be at least one 3^{rd} type of operation, in the input.



Explanation



In 3^{rd} operation you need to find the values present in the stack which were less than 10 , after performing 2^{nd} operation. So the answer is 2.



In 5^{th} operation you need to find the values present in the stack which were less than 5 , after performing 4^{th} operation. So the answer is 2.



In 7^{th} operation you need to find the values present in the stack which were less than 5 , after performing 6^{th} operation. So the answer is 1.

IVE EVENTS

Time Limit:1.0 sec(s) for each input file.Memory Limit:256 MBSource Limit:1024 KBMarking Scheme:Marks are awarded if any testcase passes.Allowed Languages:C, C++, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino),
JavaScript(Node.js), Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python
3, R(RScript), Racket, Ruby, Rust, Scala, Scala 2.11.8, Swift, Visual Basic

CODE EDITOR

Enter your code or Upload your code as file.

Save

C (gcc 4.8.4)



```
#include <stdio.h>

int main()

fried the state of t
```

COMPILE & TEST

SUBMIT

Press Ctrl-space for autocomplete suggestions.

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POWERED BY code table

IVE EVENITS

Tip: You can submit any number of times you want. Your best submission is considered for computing total score.

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