

PROBLEMS

SUBMISSIONS

USERS

CONTESTS

ABOUT

HELLO, YAVORYANKOV83.

Java May'19 DSA Linear 1 - 1 day 19:29:56

HDNL Toy

Steve found a new toy to play with. It's called HDNL (High Definition Native Language). He doesn't know what it is used for, he just finds it interesting. HDNL works by _defining homeomorphic endofunctors mapping submanifolds of a Hilbert space_. Sadly, when Steve is looking at HDNL, he isn't always able to imagine how all it would look in the end. Each line of HDNL is consisted of a letter and a number and opens a tag (like HTML tag). The letter is important, though Steve can't remember why. The number defines the level of nesting. Steve wants to see how he can nest all the tags such that the level of nesting of inner tags is bigger than that of outer tags. Your task is to write a program for Steve which shows nicely indented and closed HDNL tags.

Input

- On the first line of input, a number N is read the number of HDNL lines to follow
- Each of the next **N** lines will be a Latin letter glued to positive number

Output

- There should be N * 2 lines
- Each output line should contain either an opening or a closing tag
- Use 1 space for indentation

Constraints

- 1 <= N <= 100 000
- $1 \le \text{level of nesting} \le 1000$

Sample tests

Input

Submit solution

My submissions All submissions Best submissions

Read editorial

✓ Points: 100 (partial)

⊙ Time limit: 0.3sJava: 1.0s**™** Mamory limit:

Memory limit:

32M

Java: 32M

Author:

maya

Tags
Linear Data
Structures
Difficulty

† Difficulty Intermediate

➤ Allowed languages java

Сору



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r5 d2

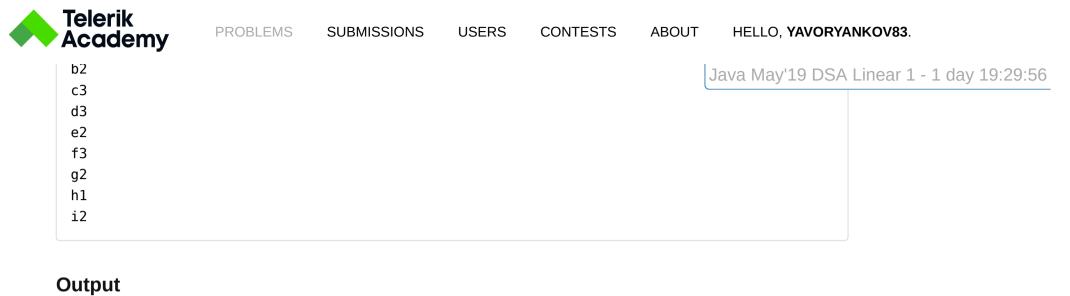
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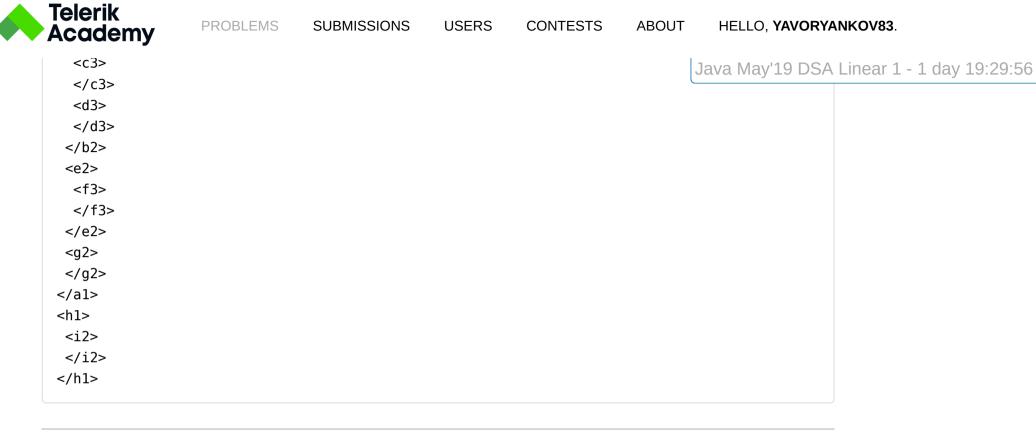
Output

Input

Copy



Сору



Clarifications

No clarifications have been made at this time.

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