
Reminder: in case of any technical issues, you can use the lightweight website [m1.codeforces.com](https://m1.codeforces.com), [m2.codeforces.com](https://m2.codeforces.com), [m3.codeforces.com](https://m3.codeforces.com).

PROBLEMS

SUBMIT CODE

MY SUBMISSIONS

STATUS

HACKS

ROOM

STANDINGS

CUSTOM INVOCATION

## A. Wonderful Sticks

time limit per test: 1 second  
memory limit per test: 256 megabytes

You are the proud owner of  $n$  sticks. Each stick has an integer length from 1 to  $n$ . The lengths of the sticks are **distinct**.

You want to arrange the sticks in a row. There is a string  $s$  of length  $n - 1$  that describes the requirements of the arrangement.

Specifically, for each  $i$  from 1 to  $n - 1$ :

- If  $s_i = <$ , then the length of the stick at position  $i + 1$  must be **smaller** than all sticks before it;
- If  $s_i = >$ , then the length of the stick at position  $i + 1$  must be **larger** than all sticks before it.

Find any valid arrangement of sticks. We can show that an answer always exists.

### Input

Each test contains multiple test cases. The first line contains the number of test cases  $t$  ( $1 \leq t \leq 500$ ). The description of the test cases follows.

The first line of each test case contains a single integer  $n$  ( $2 \leq n \leq 100$ ) — the number of sticks.

The second line of each test case contains a single string  $s$  of length  $n - 1$  consisting of characters  $<$  and  $>$  — describing the requirements of the arrangement.

### Output

For each test case, output  $n$  integers  $a_1, a_2, \dots, a_n$  ( $1 \leq a_i \leq n$ , the  $a_i$  are distinct) — the lengths of the sticks in order. If there are multiple solutions, print any of them.

### Example

input	Copy
<pre>5 2 &lt; 5 &lt;&lt;&lt; 2 &gt; 3 &lt;&gt; 7 &gt;&lt;&gt;&gt;&lt;</pre>	
output	Copy
<pre>2 1 4 3 2 5 1 1 2 2 1 3 3 4 2 5 6 7 1</pre>	

### Note

For the first test case, the requirements of the arrangement are as follows:

- $s_1 = <$ , which means  $a_2$  is smaller than  $a_1$ .

Thus, one possible arrangement is  $[2, 1]$ .

For the second test case, the requirements of the arrangement are as follows:


Neowise Labs Contest 1

(Codeforces Round 1018, Div. 1 + Div. 2)

Contest is running

01:09:12

Contestant



→ Submit?

Language:

GNU G++23 14.2 (64 bit, ms)

Choose file:

Choose File

No file chosen

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

Submit

→ Last submissions

Submission	Time	Verdict
<a href="#">316263918</a>	Apr/19/2025 18:24	Pretests passed

→ Score table

	Score
<a href="#">Problem A</a>	402
<a href="#">Problem B</a>	603
<a href="#">Problem C</a>	1206
<a href="#">Problem D</a>	1407
<a href="#">Problem E</a>	1608
<a href="#">Problem F</a>	2211
<a href="#">Problem G</a>	2211
<a href="#">Problem H</a>	2814
Successful hack	100
Unsuccessful hack	-50
Unsuccessful submission	-50
Resubmission	-50

\* If you solve problem on 00:49 from the first attempt

- $s_1 = <$ , which means  $a_2$  is smaller than  $a_1$ ;
- $s_2 = <$ , which means  $a_3$  is smaller than  $a_1$  and  $a_2$ ;
- $s_3 = >$ , which means  $a_4$  is larger than  $a_1$ ,  $a_2$ , and  $a_3$ ;
- $s_4 = <$ , which means  $a_5$  is smaller than  $a_1$ ,  $a_2$ ,  $a_3$ , and  $a_4$ .

Thus, one possible arrangement is  $[4, 3, 2, 5, 1]$ .

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Server time: Apr/19/2025 17:24:50<sup>UTC+2</sup> (k1).

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