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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 (  $1 \le t \le 500$ ). The description of the test cases follows.

The first line of each test case contains a single integer n ( $2 \le n \le 100$ ) — 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  $a_1, a_2, \ldots, a_n$  ( $1 \le a_i \le n$ , the  $a_i$  are distinct) — the lengths of the sticks in order. If there are multiple solutions, print any of them.

# Example

input	Сору
5	
2	
<	
5	
<<><	
2	
>	
3	
<b>⇔</b>	
7	
><>>><	
output	Сору
2 1	
4 3 2 5 1	
1 2	
2 1 3	
3 4 2 5 6 7 1	

## Note

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

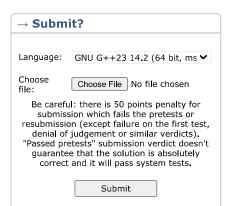
•  $s_1 = \mathsf{<}$ , which means  $a_2$  is smaller than  $a_1$ .

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



→ Last submissions		
Submission	Time	Verdict
316263918	Apr/19/2025 18:24	Pretests passed

→ Score table		
	Score	
<u>Problem A</u>	402	
<u>Problem B</u>	603	
<u>Problem C</u>	1206	
<u>Problem D</u>	1407	
<u>Problem E</u>	1608	
<u>Problem F</u>	2211	
<u>Problem G</u>	2211	
<u>Problem H</u>	2814	
Successful hack	100	
Unsuccessful hack	-50	
Unsuccessful submission	-50	
Resubmission	-50	

<sup>\*</sup> If you solve problem on 00:49 from the first attempt

- $\bullet \ \ s_1 = \texttt{<}, \text{ which means } a_2 \text{ is smaller than } a_1;$
- $\bullet \ \ s_2 = \textit{<}, \text{ which means } a_3 \text{ is smaller than } a_1 \text{ and } a_2;$
- $s_3=\,$  >, 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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