

XML Validator

Problem Code: **XMLV**



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Problem description

Let's define a string `<x>` as an opening tag, where `x` is any small letter of the Latin alphabet.
Each opening tag matches a closing tag of the type `</x>`, where `x` is the same letter.
Tegs can be nested into each other i.e., one opening and closing tag pair can be located inside another pair.

Let's define the notion of a XML-text:

- 1) An empty string is a XML-text
- 2) If `S` is a XML-text, then "`<a> S `" (quotes and spaces are for clarity) also is a XML-text, where `a` is any small Latin letter
- 3) If `S1`, `S2` are XML-texts, then "`S1 S2`" (quotes and spaces are for clarity) also is a XML-text

You are given a string. You have to verify if the given string is a valid xml or not.

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Input

First line contain `T` number of test cases
For each test case:
Only one line containing xml tagged string `S`.

Output

For each test case,
One line containing a string TRUE if s is a valid xml FALSE if it is not.

Constraints

$0 < T \leq 10$
 $0 < \text{length of } S \leq 10^5$

Example

Input:

```
2
<a><b></b></a>
<a><b></a>
```

Output:

```
TRUE
FALSE
```

Explanation

In the first example, `` is a valid xml text inside another valid xml text `<a>`.

Hence total string is xml text

In the second example has no matching pair and hence string is not valid xml text

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Time Limit: 1 secs
Source Limit: 50000 Bytes
Languages: C, CPP 4.3.2, CPP 6.3, CPP14, JAVA, PYTH, PYTH 3.5

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