

XML2 - Find the Maximum Depth

You are given a valid XML document, and you have to print the maximum level of nesting in it. Take the depth of the root as **0**.

Input Format

The first line contains N , the number of lines in the XML document.

The next N lines follow containing the XML document.

Output Format

Output a single line, the integer value of the maximum level of nesting in the XML document.

Sample Input

```
6
<feed xml:lang='en'>
  <title>HackerRank</title>
  <subtitle lang='en'>Programming challenges</subtitle>
  <link rel='alternate' type='text/html' href='http://hackerrank.com/'/>
  <updated>2013-12-25T12:00:00</updated>
</feed>
```

Sample Output

```
1
```

Explanation

Here, the root is a *feed* tag, which has depth of **0**.

The tags *title*, *subtitle*, *link* and *updated* all have a depth of **1**.

Thus, the maximum depth is **1**.