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.