



XML2 - Find the Maximum Depth ★

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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**.

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Language

Python 3



```
1 import xml.etree.ElementTree as etree
2
3 maxdepth = 0
4 def depth(elem, level):
5     global maxdepth
6
7     if maxdepth == level:
8         maxdepth += 1
9
10    for c in elem:
11        depth(c, level + 1)
```

```
13 if __name__ == '__main__': ...
```

Line: 2 Col: 1

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