PRACTICE COMPETE JOBS LEADERBOARD Search punnammani1

Practice > Python > Regex and Parsing > Detect HTML Tags, Attributes and Attribute Values

Detect HTML Tags, Attributes and Attribute Values ☆

64/115 challenges solved

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You are given an *HTML* code snippet of N lines.

Your task is to detect and print all the *HTML* tags, attributes and attribute values.

Print the detected items in the following format:

```
Tag1
Tag2
-> Attribute2[0] > Attribute_value2[0]
-> Attribute2[1] > Attribute_value2[1]
-> Attribute2[2] > Attribute_value2[2]
Tag3
-> Attribute3[0] > Attribute_value3[0]
```

The `->` symbol indicates that the tag contains an attribute. It is immediately followed by the name of the attribute and the attribute value.

The `>` symbol acts as a separator of attributes and attribute values.

If an HTML tag has no attribute then simply print the name of the tag.

Note: Do not detect any *HTML* tag, attribute or attribute value inside the *HTML* comment tags (`<!-- Comments -->`). Comments can be multiline.

All attributes have an attribute value.

Input Format

The first line contains an integer N, the number of lines in the *HTML* code snippet.

The next N lines contain *HTML* code.

Constraints

$0 < N < 100$

Output Format

Print the *HTML* tags, attributes and attribute values in order of their occurrence from top to bottom in the snippet.

Format your answers as explained in the problem statement.

Sample Input

Author	DOSHI
Difficulty	Easy
Max Score	30
Submitted By	3550

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MORE DETAILS

Download problem statement

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```
9
<head>
<title>HTML</title>
</head>
<object type="application/x-flash"
  data="your-file.swf"
  width="0" height="0">
  <!-- <param name="movie" value="your-file.swf" /> -->
  <param name="quality" value="high"/>
</object>
```

Sample Output

```
head
title
object
-> type > application/x-flash
-> data > your-file.swf
-> width > 0
-> height > 0
param
-> name > quality
-> value > high
```

Explanation

- **head** tag: Print the *head* tag only because it has no attribute.
- **title** tag: Print the *title* tag only because it has no attribute.
- **object** tag: Print the *object* tag. In the next 4 lines, print the attributes *type*, *data*, *width* and *height* along with their respective values.
- **<!-- Comment -->** tag: Don't detect anything inside it.
- **param** tag: Print the *param* tag. In the next 2 lines, print the attributes *name* along with their respective *values*.

Current Buffer (saved locally, editable)

Python 3

```
from html.parser import HTMLParser
class myhtmlparser(HTMLParser):
  def handle_starttag(self,tag,attrs):
    print(tag)
    [print('-> {} > {}'.format(*attr)) for attr in attrs]
html='\n'.join([input() for i in range(int(input()))])
parser=myhtmlparser()
parser.feed(html)
parser.close()
```

Line: 9 Col: 15

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Run Code

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64/115 challenges solved.

56%

Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

✓ Testcase 0 ✓ Testcase 1 ✓ Testcase 2 ✓ Testcase 3

6 Testcases

Input (stdin) Download

```
9
<head>
<title>HTML</title>
</head>
```

Expected Output Download

```
head
title
object
-> type > application/x-fla
```

Compiler Message

```
Success
```

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