# Detect HTML Tags, Attributes and Attribute Values \*



Your Detect HTML Tags, Attributes and Attribute Values submission got 30.00 points.

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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  ${\pmb N}$  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

```
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

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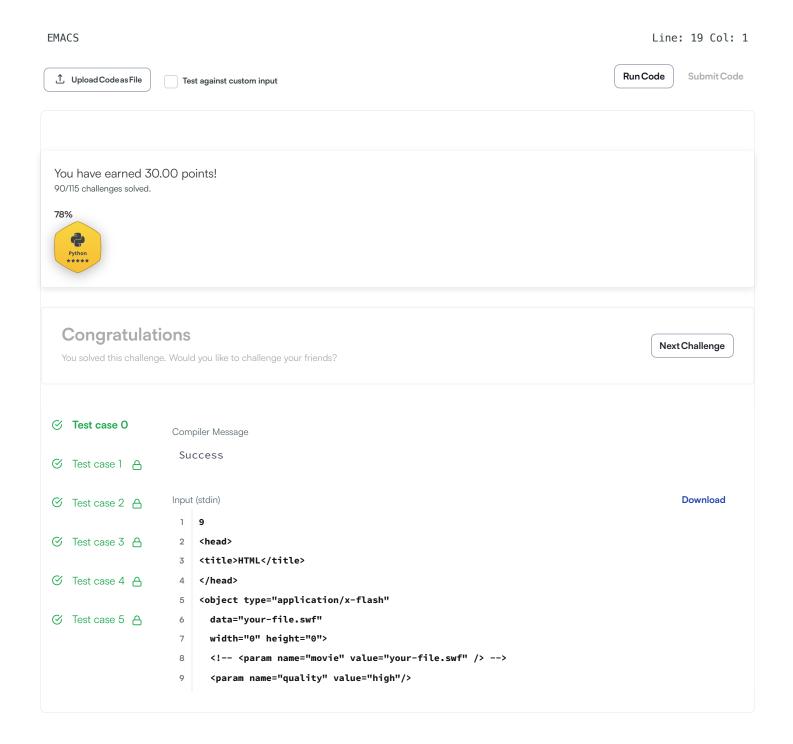
- head tag: Print the head tag only because it has no attribute.
- title tag: Print the title tag only because it has no attribute.
- object tag: Print the object tag. In the next 4 lines, print the attributes type, data, width and

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.

```
Change Theme
                                                                   Language Python 3
     # Enter your code here. Read input from STDIN. Print output to STDOUT
 1
 2
     from html.parser import HTMLParser
 3
 4
     class MyHTMLParser(HTMLParser):
 5
         def handle_starttag(self, tag, attrs):
 6
             print(tag)
 7
             for attr in attrs:
 8
                 print(f"-> {attr[0]} > {attr[1]}")
 9
10
         def handle_startendtag(self, tag, attrs):
             print(tag)
11
             for attr in attrs:
12
                 print(f"-> {attr[0]} > {attr[1]}")
13
14
     parser = MyHTMLParser()
15
16
     n = int(input())
     html = '\n'.join(input() for _ in range(n))
17
     parser.feed(html)
18
```



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