# Detect HTML Tags, Attributes and Attribute Values



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:

```
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  $\emph{N}$ , the number of lines in the  $\emph{HTML}$  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

```
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*.