Detect HTML Attributes

Charlie's second assignment was given by the Professor as soon as he submitted the first one. Professor asked Charlie to create a list of all the attributes of every tag found in HTML pages.

```
<p>This is a paragraph</p>
```

The above HTML string has *p* as its tag but *no attributes*.

```
<a href="http://www.quackit.com/html/tutorial/html_links.cfm">Example Link</a>
```

This string has *a* as a tag and *href* as an attribute.

Input Format

The first line contains N, the number of lines in the HTML fragment. This is followed by lines from a valid HTML document or fragment.

Constraints

Number of characters in the test fragments <= 10000 characters. Characters will be restricted to ASCII.
Fragments for the tests will be picked up from Wikipedia.
Attributes are all lowercase alphabets.

Output Format

Each tag must be separated by a newline arranged in lexicographic order
Each attribute noted for a given tag must be arranged next to a tag in lexicographic order.

The output will be of the format

```
tag-1:attribute-1,attribute-2,attribute-3....
tag-2:attribute-1,attribute-2,attribute-3....
tag-3:attribute-1,attribute-2,attribute-3....
...
tag-n:attribute-1,attribute-2,attribute-3....
```

Where *tag-1* is lexicographically smaller than *tag-2* and *attribute-1* is lexicographically smaller than *attribute-2*

Sample Input:1

```
2
<p><a href="http://www.quackit.com/html/tutorial/html_links.cfm">Example Link</a></p>
<div class="more-info"><a href="http://www.quackit.com/html/examples/html_links_examples.cfm">More Link Examples...</a>
</div>
```

Sample Output:1

```
a:href
div:class
p:
```

Sample Input:2

```
9
<li style="-moz-float-edge: content-box">... that <a href="/wiki/Orval_Overall" title="Orval Overall">Orval Overall</a> <i>(pictured)
</i> is the only <b><a href="/wiki/List_of_Major_League_Baseball_pitchers_who_have_struck_out_four_batters_in_one_inning"
title="List of Major League Baseball pitchers who have struck out four batters in one inning">Major League Baseball player to strike
out four batters in one inning</a></b> in the <a href="/wiki/World_Series" title="World Series">World Series</a>?</li>
<li style="-moz-float-edge: content-box">... that the three cities of the <b><a href="/wiki/West_Triangle_Economic_Zone"
title="West Triangle Economic Zone">West Triangle Economic Zone</a></b> contribute 40% of Western China's GDP?</li>
<li style="-moz-float-edge: content-box">... that <i><a href="/wiki/Kismet_(1943_film)" title="Kismet (1943 film)">Kismet</a></i>,
directed by <b><a href="/wiki/Gyan_Mukherjee" title="Gyan Mukherjee">Gyan Mukherjee</a></b>, ran at the <a
href="/wiki/Roxy_Cinema_(Kolkata)" title="Roxy Cinema (Kolkata)">Roxy, Kolkata</a>, for 3 years and 8 months?</li>
<li style="-moz-float-edge: content-box">... that <a href="/wiki/Vauix_Carter" title="Vauix Carter">Vauix Carter</a> both coached
and played for the <b><a href="/wiki/1882_Navy_Midshipmen_football_team" title="1882 Navy Midshipmen football team">1882 Navy
Midshipmen football team</a></b>?</li>
<li style="-moz-float-edge: content-box">... that <a href="/wiki/Zhu_Chenhao" title="Zhu Chenhao">Zhu Chenhao</a> was
sentenced to <a href="/wiki/Slow_slicing" title="Slow slicing">slow slicing</a> for leading the <b><a
href="/wiki/Prince_of_Ning_rebellion" title="Prince of Ning rebellion">Prince of Ning rebellion</a></b> against the <a
href="/wiki/Ming_Dynasty" title="Ming Dynasty">Ming Dynasty</a> <a href="/wiki/Zhengde_Emperor" title="Zhengde
Emperor">emperor Zhengde</a>?</li>
<li style="-moz-float-edge: content-box">... that <b><a href="/wiki/Mirza_Adeeb" title="Mirza Adeeb">Mirza Adeeb</a></b> was a
prominent modern Pakistani <a href="/wiki/Urdu" title="Urdu">Urdu</a> playwright whose later work focuses on social problems and
daily life?</li>
<li style="-moz-float-edge: content-box">... that in <i><b><a
href="/wiki/La%C3%9Ft_uns_sorgen,_la%C3%9Ft_uns_wachen,_BWV_213" title="Lat uns sorgen, lat uns wachen, BWV 213">Die
Wahl des Herkules</a></b></i>, Hercules must choose between the good cop and the bad cop?<br style="clear:both;" />
<div style="text-align: right;" class="noprint"><b><a href="/wiki/Wikipedia:Recent_additions" title="Wikipedia:Recent
additions">Archive</a></b>  <b><a href="/wiki/Wikipedia:Your_first_article" title="Wikipedia:Your first article">Start a new
article</a></b>  <b><a href="/wiki/Template_talk:Did_you_know" title="Template talk:Did you know">Nominate an article</a>
</b></div>
</li>
```

Sample Output:2

```
a:href,title
b:
br:style
div:class,style
i:
li:style
```

Viewing Submissions

You can view others' submissions if you solve this challenge. Navigate to the challenge leaderboard.