# Problem 5 - Semantic HTML

You are given an HTML code, written in the old non-semantic style using tags like <div id="header">, <div class="section">, etc. Your task is to write a program that converts this HTML to semantic HTML by changing tags like <div id="header"> to their semantic equivalent like <header>.

The non-semantic tags that should be converted are always <div>s and have either id or class with one of the following values: "main", "header", "nav", "article", "section", "aside" or "footer". Their corresponding closing tags are always followed by a comment like <!-- header -->, <!-- nav -->, etc. staying at the same line, after the tag.

#### Input

The input will be read from the console. It will contain a variable number of lines and will end with the keyword "END".

### Output

The output is the semantic version of the input HTML. In all converted tags you should replace multiple spaces (like <header style="color:red">) with a single space and remove excessive spaces at the end (like <footer >). See the examples.

#### **Constraints**

- Each line from the input holds either an HTML opening tag or an HTML closing tag or HTML text content.
- There will be no tags that span several lines and no lines that hold multiple tags.
- Attributes values will always be enclosed in **double quotes** ".
- Tags will never have id and class at the same time.
- The HTML will be **valid**. Opening and closing tags will match correctly.
- Whitespace may occur between attribute names, values and around comments (see the examples).
- Allowed working time: 0.1 seconds. Allowed memory: 16 MB.

## **Examples**

Input	Output
<div id="header"> </div> header END	<header> </header>
<pre><div id="header" style="color:red"> </div> <!-- header--> END</pre>	<pre><header style="color:red"> </header></pre>
<pre><div class="header" style="color:blue"> </div> <!-- header--> END</pre>	<pre><header style="color:blue"> </header></pre>
<pre><div align="left" id="nav" style="color:blue"></div></pre>	<pre><nav align="left" style="color:blue"></nav></pre>
<pre></pre>	<pre></pre>





































