



# Java Software Development

## Homework 1

Deadline: 2016/03/10 23:00

# Problem Description

1

Given an XML file as following:

```
<tag>TAG</tag>
<application android:theme="@style/AppTheme">
  <activity android:name=".MainActivity">
    <intent-filter>
      <action android:name="android.intent.action.MAIN"/>
      <category android:name="android.intent.category.LAUNCHER"/>
    </intent-filter>
  </activity>
</application>
```

You should print the attributes of TAG.

TAG is one of the following strings: application, activity, intent-filter, action, category.

For example, given the following XML file:

```
<tag>application</tag>
<application android:theme="@style/AppTheme">
  <activity android:name=".MainActivity">
    <intent-filter>
      <action android:name="android.intent.action.MAIN"/>
      <category android:name="android.intent.category.LAUNCHER"/>
    </intent-filter>
  </activity>
</application>
```

You should print:

```
android:theme="@style/AppTheme"
```

For another example, given the following XML file:

```
<tag>action</tag>
<application android:theme="@style/AppTheme">
  <activity android:name=".MainActivity">
    <intent-filter>
      <action android:name="android.intent.action.MAIN"/>
      <category android:name="android.intent.category.LAUNCHER"/>
    </intent-filter>
  </activity>
</application>
```

You should print:

```
android:name="android.intent.action.MAIN"
```

If the tag does not contain any attributes, you should not print any characters. For example, the following XML file has no output:

```
<tag>intent-filter</tag>
<application android:theme="@style/AppTheme">
  <activity android:name=".MainActivity">
    <intent-filter>
      <action android:name="android.intent.action.MAIN"/>
      <category android:name="android.intent.category.LAUNCHER"/>
    </intent-filter>
  </activity>
</application>
```

# Input and Output

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- The input is given from the program argument `args[0]`
- For example, the following code snippet prints the content of `args[0]`

```
public class Test {  
    public static void main(String[] args) {  
        System.out.println(args[0]);  
    }  
}
```

# Sample Input and Output

1

Input	<pre>&lt;tag&gt;application&lt;/tag&gt; &lt;application android:theme="@style/AppTheme"&gt;   &lt;activity android:name=".MainActivity"&gt;     &lt;intent-filter&gt;       &lt;action android:name="android.intent.action.MAIN"/&gt;       &lt;category android:name="android.intent.category.LAUNCHER"/&gt;     &lt;/intent-filter&gt;   &lt;/activity&gt; &lt;/application&gt;</pre>
Output	<pre>android:theme="@style/AppTheme"</pre>

# Sample Input and Output

2

Input	<pre>&lt;tag&gt;action&lt;/tag&gt; &lt;application android:theme="@style/AppTheme"&gt;   &lt;activity android:name=".MainActivity"&gt;     &lt;intent-filter&gt;       &lt;action android:name="android.intent.action.MAIN"/&gt;       &lt;category android:name="android.intent.category.LAUNCHER"/&gt;     &lt;/intent-filter&gt;   &lt;/activity&gt; &lt;/application&gt;</pre>
Output	<pre>android:name="android.intent.action.MAIN"</pre>



# Sample Input and Output

3

Input	<pre>&lt;tag&gt;intent-filter&lt;/tag&gt; &lt;application android:theme="@style/AppTheme"&gt;   &lt;activity android:name=".MainActivity"&gt;     &lt;intent-filter&gt;       &lt;action android:name="android.intent.action.MAIN"/&gt;       &lt;category android:name="android.intent.category.LAUNCHER"/&gt;     &lt;/intent-filter&gt;   &lt;/activity&gt; &lt;/application&gt;</pre>
Output	

# Scoring Criteria

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- Correctness: 80%
  - Note that TA will test your program with more than one test case.
- Coding standards: 20%
- Plagiarism is strictly forbidden

# Submission

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- Please archive your source code to `STUDENT_ID.zip` and upload to Moodle before deadline
- Your zip file should follow the format depicted in the document "Java Online Judge System Manual.pdf"
- Remember to test your code on *Java Online Judge System* before uploading to Moodle
- No late submission is accepted

If you have any problem about this homework,  
please contact TA: 林孝融 (XavierLinX@gmail.com)