



Java Software Development

Homework 1

Deadline: 2016/03/10 23:00

Given an XML file as the 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

- 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><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></pre> |
| Output | <pre>android:theme="@style/AppTheme"</pre> |

Sample Input and Output

2

| | |
|--------|--|
| Input | <pre><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></pre> |
| Output | <pre>android:name="android.intent.action.MAIN"</pre> |

Sample Input and Output

3

| | |
|--------|---|
| Input | <pre><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></pre> |
| Output | |

Scoring Criteria

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

Submission

- 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)