109HW3_B: LET’S MAKE XML GREAT AGAIN!

Let’s make XML great again, whatever.
Please write a Lex/Yacc program to compute the output.

Input Format:
a **Tag**.

Output Format:
the **value** of the **Tag** in the input (either “**true**” or “**false**”), with a **newline (‘\n’)**.

A **Tag** may be a **Paired Tag** or a **Self-Closing Tag**.

A **Paired Tag** is composed of:

- a **Start Tag**, which is composed of:
  - **<**
  - **tag name** (any one of: **and**, **or**, **not**)
  - **>**
- **Sub Tags**: ***ANY*** number of **Tag**(s), *no more than 10, the **depth** of **Tag** is also no more than 10*
- an **End Tag**, which is composed of:
  - <
  - /
  - **tag name** (always same as the corresponding **Start Tag**)
  - >

A **Self-Closing Tag** is composed of:

  - **<**
  - **tag name** (any one of: **true**, **false**)
  - /
  - **>**

- **Value** of a **Tag**:
  - The **value** of <***true***/> is **true**, the value of <***false***/> is **false**.
  - Given *value1, value2, …, valueN* as the **value**s of the **Sub Tags** of a **Paired Tag**, the **value** of that **Paired Tag** is:

tag name	**value**	**value** (if **N**=0)	**value** (if **N**=1)
and	*value1* && *value2* && … && *valueN*	true	*value1*
or	*value1* || *value2* || … || *valueN*	false	*value1*
not	!*value1*	*(always 1 **Sub Tag**)*	

Example Input 1:

```
<and>
    <true/>
    <false/>
    <true/>
</and>
```

Example Output 1:

```
false
```

Example Input 2:

```
<or>
    <and>
        <false/>
        <or>
            <false/>
            <true/>
        </or>
    </and>
    <true/>
</or>
```

Example Output 2:

```
true
```

Example Input 3:

```
<false/>
```

Example Output 3:

```
false
```

Example Input 4:

```
<and>
    <true/>
</and>
```

Example Output 4:

```
true
```

Example Input 5:

```
<or>
</or>
```

Example Output 5:

```
false
```