

## PI GRAM DES IPTION

te a program that the nesting of element and XML document. The nesting a simply states that while element be nested, they coverlap. This is one of the nest that must be satisfied for an XML document to be considered that page and this page.

# ASKS & REQ REM 3

- 1. **NOTE**: Note: N
- 2. It-click a JavaCoreTemplate project and the Copy. Right-click in the Package Explorer and ext Paste
- he project e must follow this patter. Lname}\_XmlValidator. | xM}, where {FLname} is replaced by the first ster and year. E.g. if your name is Maria to siano and its Fall pattern, it yes to be graded.

 In your src folder, create a package named xmlvalidator.

## 5. BasicXmlTagStack class:

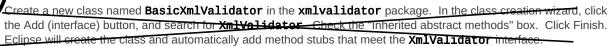
Download the XmlTag.java class and the XmlTagStack.java interface and put them in the xmlvalidator package. Read the comments above each method to understand what they are supposed to do.

. Create a new class named BasicXmlTagStack in the xmlvalidator package. In the class creation wizard, click the Add (interface) button, and search for XmlTagStack. Check the "Inherited abstract methods" box. Click Inich. Eclipse will create the class and automatically add method stubs that meet the XmlTagStack interface.

- You do not modify the XmlTagStack interface.
  You add your code in the BasicXmlTagStack class.
- 4. You must write your own stack code i.e. you can't use java.util.Stack or any other existing implementation. You are welcome to use the guidebook's code as a guide if you like.

#### 6. BasicXmlValidator class:

Download the XmlValidator.java interface and put it in the xmlvalidator package. Read the gomments above each method to understand what hey are supposed to do.

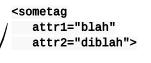


3. You do not modify the XmlValidator interface. You add your code in the BasicXmlValidator class.

### 7. Validation notes:



- 1. Ignore any tag that doesn't start with '/' or a letter character. This includes xml version/encoding elements like <?xml version="1.0" encoding="UTF-8"?>, and comments like <!-- diblah -->.
- 2. Ignore self-closing tags like <sometag />.
- 3. Ignore comments like <!-- This is a comment -->.
- 4. Line numbers start at 1. '\n' marks the end of a line.
- 5. You can assume that the XML document won't have any CDATA sections.
- 6. Note that XML start tags can span multiple lines. E.g.:



- (8. Add the unit test class. This class will be used to test the code that you write.
  - 1. Greate a new package in the **src** folder called **sbecunittest**. To be clear: **sbccunittest** should be a child of the **src** folder, not of the **xmlvalidator** package.
  - 2. Download XmlValidatorTester.java into sbccunittest.
- Here is an example of what your project directory should look like once you've downloaded and created all of the files:

```
▼ 🚔 > XmlValidatorRI [XmlValidatorRI master]
```

▼ # > src

▼ # > sbccunittest

▶ 🖪 XmlValidatorTester.java

\* # xmlvalidator

- BasicXmlTagStack.java
- ▶ 🛂 BasicXmlValidator.java
- ▶ I XmlTag.java
- ► **I** XmlTagStack.java
- KmlValidator.java
- ► Neferenced Libraries
- ▶ JRE System Library [Java SE 10.0.2 [10.0.2]]
- **▶** 🔓 lib
- ▶ 🗁 pmd\_min

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