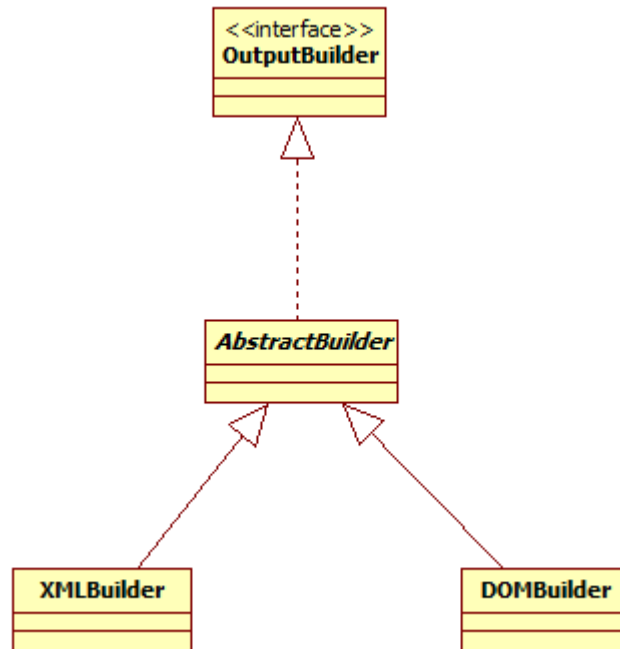


Exercice 8 :

Exemple de code qui génère du XML



DOMBuilder :

public class DOMBuilder extends AbstractBuilder ...

```
private Document document;
private Element root;
private Element parent;
private Element current;
```

```
public void addAttribute(String name, String value) {
    current.setAttribute(name, value);
}
```

```
public void addBelow(String child) {
    Element childNode = document.createElement(child);
    current.appendChild(childNode);
    parent = current ;
    current = childNode;
    history.push(current);
}
```

```
public void addBeside(String sibling) {
    if(current == root)
        throw new RuntimeException(CANNOT_ADD_BESIDE_ROOT);
}
```

```

Element siblingNode = deocument.createElement(sibling);
parent.appendChild(siblingNode);
current = siblingNode;
history.pop();
history.push(current);
}

public void addValue(String value) {
current.appendChild(document.createTextNode(value));
}

```

XMLBuilder :

public class XMLBuilder extends AbstractBuilder ...

```

private TagNode rootNode;
private TagNode currentNode;

public void addChild(String childTagName) {
    addTo(CurrentNode,childTagName);
}

public void addSibling(String siblingTagName) {
    addTo(currentNode.getParent(),siblingTagName);
}

public void addTo(TagNode parentNode, String tagName) {
    currentNode = new TagNode(tagName);
    parentNode.add(currentNode);
}

public void addAttribute(String name, String value) {
    currentNode.addAttribute(name, value);
}

public void addValue(String value) {
    currentNode.addValue(value);
}

```