

**F.** Explain the advantage and/or disadvantage of the design of part d and part e.

**Disadvantages of part d diagram**

1. It will be difficult to add a new type of XML component since you must change the "XMLComponent" class.
2. "XMLComponent" class has more than one responsibility, managing its operations and operations on the "XMLText" component.
3. It will be difficult to traverse the items since there are different types of components.

**Advantages of part d diagram**

1. The class diagram is less complex and straightforward since no additional classes are needed.

**Advantages of part e diagram**

1. It will be easy to add a new type of XML component since you will only have to implement the "XMLComponent" interface, no changes other changes needed.
2. Every class handles one responsibility which is its own.
3. Traversal is easy since there is a unified interface.

**Disadvantages of part e diagram**

1. The class diagram is more complex since an additional class are needed.