**QUIZ**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

The following XML Schema specification (quiz.xsd) is intended for the Sample XML Document, but it has two “errors” in it. Your task is to identify the modifications required in XML Schema specification so the XML data is valid with respect to the modified specification.

**quiz.xsd**

<?xml version="1.0"?>  
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">  
<xsd:element name="Band">  
<xsd:complexType>  
<xsd:sequence>  
<xsd:element name="Member" type="MemberType" maxOccurs="unbounded" />  
</xsd:sequence>  
</xsd:complexType>  
</xsd:element>  
<xsd:complexType name="MemberType">  
<xsd:sequence>  
<xsd:element name="Plays" type="xsd:string" maxOccurs="unbounded" />  
<xsd:element name="Name" type="xsd:string" />  
</xsd:sequence>  
<xsd:attribute name="mID" type="xsd:string" use="required" />  
<xsd:attribute name="Year" type="xsd:integer" use="required" />  
<xsd:attribute name="Likes" type="xsd:string" use="required" />  
</xsd:complexType>  
</xsd:schema>

**ANSWER**

Sample XML

<?xml version="1.0"?>  
<Band xmlns:xsi=

"http://www.w3.org/2001/XMLSchema-instance"

xsi:noNamespaceSchemaLocation="quiz.xsd">  
<Member mID="m1" Year="3" Likes="m3">  
<Name>Diane</Name>  
<Plays>Trumpet</Plays>  
<Plays>Cornet</Plays>  
</Member>  
<Member mID="m2" Year="1" Likes="m1 m3 m4">  
<Name>Edward</Name>  
</Member>  
<Member mID="m3" Year="4" Likes="m1">  
<Name>Fiona</Name>  
<Plays>Saxophone</Plays>  
<Plays>Trumpet</Plays>  
</Member>  
<Member mID="m4" Year="3">  
<Name>Gary</Name>  
<Plays>Clarinet</Plays>  
</Member>  
</Band>

Solution :

* Sub elements of Member (**Plays** and **Name**) are in wrong sequence. **Name** should be mentioned before **Plays**.
* Attribute "Likes" of Element "Member" should be made **optional** instead of **required** as it does not appear in all "Member" elements.