XML & JSON

העבר את הטקסט הבא מJSON לXML

```json
{
"buying":{
        "client_f_name:": "Meni",
        "client_l_name": "Cohen",
        "date":"2017-5-17",
        "items":[{
                                "type":"apple",
                                "amount":3,
                                "price":4.5,
                                "total_price": 13.5
        },
        {

                                "type":"banana",
                                "amount":7,
                                "price":9,
                                "total_price": 63
        },
        ],
    "Total_buying_price":86.5
  }
}
```

מה השגיאות ב-XML הבא:

```
<movies>
        <name>spiderman</name>
        <year>
        <actors>
        <actor>
        <name>yael
        </actor>
        </name>
        </actors>
<stars>   4</stars>
        <comments />

</movies>
```

xsd	xml
<?xml version = "1.0"?> <xs:schema xmlns:xs = http://www.w3.org/2001/XMLSchema"> targetNamespace = "http://www.tutorialspoint.com" xmlns = "http://www.tutorialspoint.com" elementFormDefault = "qualified"> <xs:element name = 'class'> <xs:complexType> <xs:sequence> <xs:element name = 'student' type = 'StudentType' minOccurs = '0' maxOccurs = 'unbounded' /> </xs:sequence> </xs:complexType> </xs:element> <xs:complexType name = "StudentType"> <xs:sequence> <xs:element name = "firstname" type = "xs:string"/> <xs:element name = "lastname" type = "xs:string"/> <xs:element name = "nickname" type = "xs:string"/> <xs:element name = "marks" type = "xs:positiveInteger"/> </xs:sequence> <xs:attribute name = 'rollno' type = 'xs:positiveInteger'/> </xs:complexType> </xs:schema>	<?xml version = "1.0"?> <class > <student rollno = 393> <firstname>Dinkar</firstname> <nickname>Dinkar</nickname> <marks>85</marks> </student> <student rollno = -493> <firstname>Vaneet</firstname> <lastname>Gupta</lastname> <nickname>Vinni</nickname> <marks>95</marks> </student> <student rollno = "593"> <firstname>Jasvir</firstname> <lastname>Singh</lastname> <nickname>852</nickname> <marks>90</marks> </student> </class>

רשום XSD ל XML הבא:

```xml
<shiporder orderid="889923">
        <orderperson>John Smith</orderperson>
        <shipto>
                <name>Ola Nordmann</name>
                <address>Langgt 23</address>
                <city>4000 Stavanger</city>
                <country>Norway</country>
        </shipto>
        <item>
                <title>Empire Burlesque</title>
                <note>Special Edition</note>
                <quantity>1</quantity>
                <price>10.90</price>
        </item>
        <item>
                <title>Hide your heart</title>
                <quantity>1</quantity>
                <price>9.90</price>
        </item>
</shiporder>
```

תשובה:

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">

<xs:element name="shiporder">
 <xs:complexType>
  <xs:sequence>
   <xs:element name="orderperson" type="xs:string"/>
   <xs:element name="shipto">
    <xs:complexType>
     <xs:sequence>
      <xs:element name="name" type="xs:string"/>
      <xs:element name="address" type="xs:string"/>
      <xs:element name="city" type="xs:string"/>
      <xs:element name="country" type="xs:string"/>
     </xs:sequence>
    </xs:complexType>
   </xs:element>
   <xs:element name="item" maxOccurs="unbounded">
    <xs:complexType>
     <xs:sequence>
      <xs:element name="title" type="xs:string"/>
      <xs:element name="note" type="xs:string" minOccurs="0"/>
      <xs:element name="quantity" type="xs:positiveInteger"/>
      <xs:element name="price" type="xs:decimal"/>
     </xs:sequence>
    </xs:complexType>
   </xs:element>
  </xs:sequence>
  <xs:attribute name="orderid" type="xs:string" use="required"/>
 </xs:complexType>
</xs:element>

</xs:schema>
```