为一个xml文档创建外部DTD，该XML文档的结构要求如下：

（1）根元素名称为Library。

（2）Library必须包含两个元素：Book和Member，分别表示书的详细信息和发行人。

（3）Book必须包含一个BookId属性。所有其他的元素，例如Title、Author、Price、Publisher和Cost都只能作为Book的子元素。

（4）元素Member包含Name和Address两个子元素。元素Name包含FirstName、MiddleName和LastName三个子元素。元素Address包含HouseNumber、Street、City三个子元素。

（5）用C++的XML解析库来解析所做的XML文档，要有运行结果截图。

答：DTD文档：

<?xml version="1.0" encoding="UTF-8"?>

<!ELEMENT Library (Book,Member)+>

<!ELEMENT Book (Book\_Title,Book\_Author,Book\_Price,Book\_Publisher,Book\_Cost)>

<!--#PCDATA??????????-->

<!ELEMENT Book\_Title (#PCDATA)>

<!ELEMENT Book\_Author (#PCDATA)>

<!ELEMENT Book\_Price (#PCDATA)>

<!ELEMENT Book\_Publisher (#PCDATA)>

<!ELEMENT Book\_Cost (#PCDATA)>

<!ELEMENT Member (Member\_Name,Member\_Address)>

<!ELEMENT Member\_Name (Name\_FirstName,Name\_MiddleName,Name\_LastName)>

<!ELEMENT Member\_Address (Address\_HouseNumber,Address\_Street,Address\_City)>

<!ELEMENT Name\_FirstName (#PCDATA)>

<!ELEMENT Name\_MiddleName (#PCDATA)>

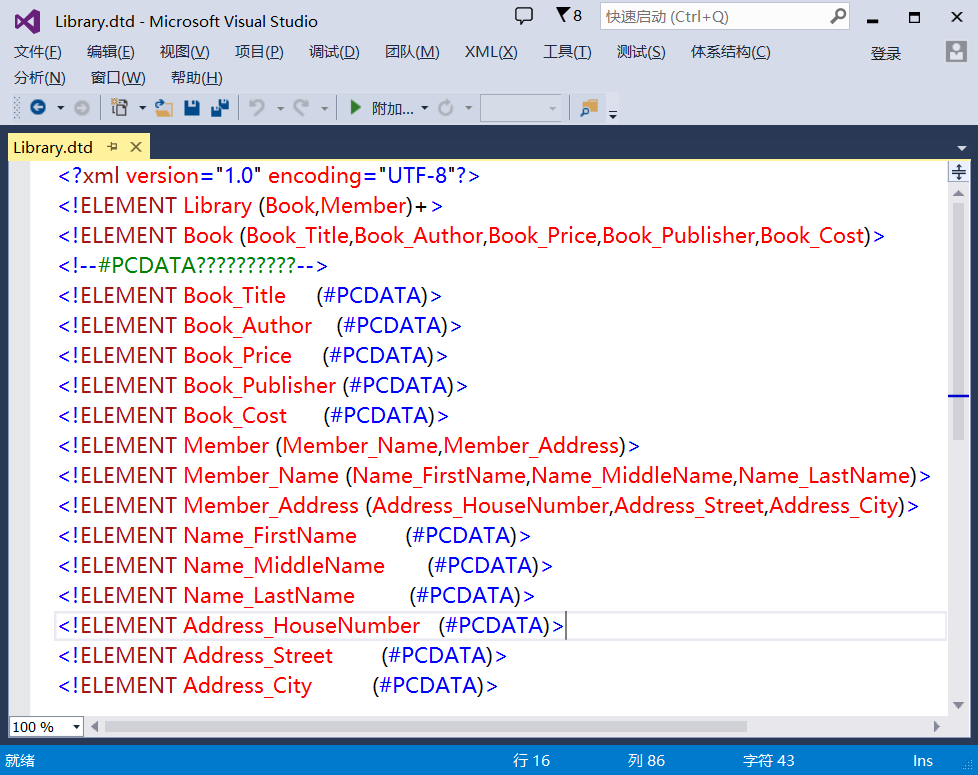
<!ELEMENT Name\_LastName (#PCDATA)>

<!ELEMENT Address\_HouseNumber (#PCDATA)>

<!ELEMENT Address\_Street (#PCDATA)>

<!ELEMENT Address\_City (#PCDATA)>

<!ATTLIST Book Book\_Bookld CDATA #REQUIRED>



XML文件：

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE Library SYSTEM "Library.dtd">

<Library>

<Book>

<Book BookId="1942-1943"/>

<Book\_Title>Le Petit Prince</Book\_Title>

<Book\_Author>Antoine.de.Saint-Exupery</Book\_Author>

<Book\_Price>22.0</Book\_Price>

<Book\_Publisher>Reynal Hitchcock Harcourt Brace Jovanovich Inc</Book\_Publisher>

<Book\_Cost>22.0</Book\_Cost>

</Book>

<Member>

<Member\_Name>

<Name\_FirstName>Antoine</Name\_FirstName>

<Name\_MiddleName>de</Name\_MiddleName>

<Name\_LastName>Saint-Exupery</Name\_LastName>

</Member\_Name>

<Member\_Address>

<Address\_HouseNumber>18</Address\_HouseNumber>

<Address\_Street>123Street</Address\_Street>

<Address\_City>New York City</Address\_City>

</Member\_Address>

</Member>

<Book>

<Book\_Title></Book\_Title>

<Book\_Author></Book\_Author>

<Book\_Price></Book\_Price>

<Book\_Publisher></Book\_Publisher>

<Book\_Cost></Book\_Cost>

</Book>

<Member>

<Member\_Name>

<Name\_FirstName></Name\_FirstName>

<Name\_MiddleName></Name\_MiddleName>

<Name\_LastName></Name\_LastName>

</Member\_Name>

<Member\_Address>

<Address\_HouseNumber></Address\_HouseNumber>

<Address\_Street></Address\_Street>

<Address\_City></Address\_City>

</Member\_Address>

</Member>

</Library>

