

- Using the XML document below to identify
 1. Hierarchies of the document
 - a. Which element(s) are parents?
 - b. Which element(s) are children?
 - c. Which element(s) are siblings of <first>?
 - d. Which element(s) are branches?
 - e. Which element(s) are leaves?
 2. Understanding the document type
 - a. What is the top element of the document?
 - b. Which of the element(s) are required?
 - c. Which of the element(s) are optional?
 - d. What other rules could you apply to the document?

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<books>
  <title>Beginning XML</title>
  <edition>4th</edition>
  <author>
    <first>David</first>
    <last>Hunter</last>
  </author>
  <author>
    <first>Jeff</first>
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  </author>
  <author>
    <first>Joe</first>
    <last>Fawcett</last>
  </author>
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  </author>
  <author>
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    <last>Ducket</last>
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  <author>
    <first>Andrew</first>
    <last>Watt</last>
  </author>
  <author>
    <first>Linda</first>
    <last>McKinnon</last>
  </author>
  <ISBN>978-0-470-11487-2</ISBN>
  <publisher>Wrox</publisher>
  <pubwebsite>http://www.wrox.com</pubwebsite>
  <authorwebsite></authorwebsite>
</books>
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CIS 260 Chapter 1 Exercise

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Question 1 Answers:

Which element(s) are parents?	Which element(s) are children?	Which element(s) are siblings of <first>?	Which element(s) are branches?	Which element(s) are leaves?
books, title	title, edition	last	books, title	authorwebsite
edition, author	author, first		edition, author	
first, last	last, ISBN		first, last	
Isbn, publisher	publisher, pubwebsite		Isbn, publisher	
pubwebsite	authorwebsite		pubwebsite	

Question 2 Answers:

What is the top element of the document?	Which of the element(s) are required?	Which of the element(s) are optional?	What other rules could you apply to the document?
books	title, edition	pubwebsite	Books must have a title, edition, at least 1 author which has both a first and last name, isbn and publisher. If there is no edition then edition is 1 st . First name is before last name. Title is before edition before author before isbn before publisher before pubwebsite before authorwebsite.
	author, first	authorwebsite	
	last, isbn		
	publisher		