XSLT AND XML

<?xml version="1.0" ?>
<spca:animals xmlns="http://www.petsmart.com"
    xmlns:spca="http://www.breeds.com">
    <animal id="37">
        <spca:type>Huskie</spca:type>
        <spca:size>large</spca:size>
    </animal>
    <animal id="74">
        <spca:type>Border Collie</spca:type>
        <spca:size>medium</spca:size>
    </animal>
    <animal id="14">
        <spca:type>Pitbull</spca:type>
        <spca:size>medium</spca:size>
    </animal>
</spca:animals>

1. What is the namespace of the <animal> elements?

2. What is the namespace of the <spca:type> elements?

3. Create an XSLT that creates an HTML doc which lists the types and sizes inside of <p> tags.

<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

</xsl:stylesheet>
FULL WEB PIPELINE

1. Write javascript that creates an ordered list with text numbers.

   1. One
   2. Two
   3. Three
   4. . . .
   10. Ten

2. Use javascript to make the list clickable, and you call \texttt{square.pl} with the number that was clicked as a parameter.

3. Write the script \texttt{square.pl} that takes one parameter, and prints two things: (1) the value of $x^{10}$, and (2) the value of $x!$

4. Read the output from \texttt{square.pl} in javascript, and print both below the list of numbers as:

   a. “Your $x^{10} = XX$”
   b. “Your $x! = YY$”

DOM HANDLING

You have a variable \texttt{root} that represents the Element <div> in the code below. Write javascript code that outputs with alert() the value in the nested <p> (e.g., “Leaves”).

\begin{verbatim}
<
div>
  <p>Welcome to my page!</p>
  <ol>
    <li>Pizza</li>
    <li>Comedy</li>
    <li><ol>
      <li>Trees</li>
      <li><p>Leaves</p></li>
      <li>Almonds</li>
    </ol></li>
  </ol>
</div>
\end{verbatim}