

In these exercises, you will be working with a small XML data set about world countries. This data is adapted from the Mondial 3.0 database as hosted by the [University of Washington](#), and was originally compiled by the [Georg-August University of Goettingen Institute for Informatics](#). Each country has a name, population, and area (in sq. km). Some countries also list languages (with percentages of the population that speaks each language) and/or cities (with names and populations). The XML data is [here](#).

Instructions: Each problem asks you to write a query in XSLT. When you click "Check Answer" our back-end runs your query against the sample database using Saxon. It displays the result and compares your answer against the correct one. When you're satisfied with your solution for a given problem, click the "Submit" button to check your answer.

You may perform these exercises as many times as you like, so we strongly encourage you to keep working with them until you complete the exercises with full credit.

Q1 (1 point possible)

Find all country names containing the string "stan"; return each one within a "Stan" element. (Note: To specify quotes within an already-quoted XPath expression, use `quot;`.)

Your solution should fill in the following stylesheet:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<xsl:stylesheet version="2.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:template match=...>
    ... template body ...
  </xsl:template>
  ... more templates as needed ...
</xsl:stylesheet>
```

Note: You do not need to use `doc(..)` in your solution. It will be executed on `countries.xml`.

(XSLT can be quite challenging to get right, and this problem is no exception. Congratulations if you succeed!)

1 Enter your XSLT stylesheet here

Unanswered

Submit

Q2 (1 point possible)

Remove from the data all countries with area greater than 40,000 and all countries with no cities listed. Otherwise the structure of the data should be the same.

Your solution should fill in the following stylesheet:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<xsl:stylesheet version="2.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:template match=...>
    ... template body ...
  </xsl:template>
  ... more templates as needed ...
</xsl:stylesheet>
```

Note: You do not need to use "doc(..)" in your solution. It will be executed on countries.xml.

(XSLT can be quite challenging to get right, and this problem is no exception. Congratulations if you succeed!)

1 Enter your XSLT stylesheet here

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