CSE 459 – Assignment 3
Due 05.06.2011 Wednesday, 23:59

XML Parsing with Java

In this project, you will implement a Java program that takes an XML document and an element value as the arguments. The Java program is supposed to parse the XML document and search for the given element value and print the path to the given value. As an example:
Given the following XML document (xmldoc.xml):

```
<A>
<B>
<C>value1</C>
</B>
<D>value2</D>
</A>

$ java MyXMLParser xmldoc.xml value1
The path is: A -> B -> C

$ java MyXMLParser xmldoc.xml value2
The path is: A -> D

$ java MyXMLParser xmldoc.xml value3
No such element
```

1. Implement the specified XML parser using DOM.
2. Implement the specified XML parser using SAX.
3. Compare the two parsers. Which one is faster? (put a timer, and test for a large XML document). Which one was easier to implement? Which one requires more memory allocation? Any other comments?
Your parser should work for any correct XML document. If multiple elements have the same requested value, you may simply choose one of them.

You are expected to do your project in groups of **two**. You may give a demo about your project, if requested by Samet Tonyalı.

What to submit? - You can submit your projects in a zip file which contains your well COMMENTED source code and DETAILED report by e-mail to **cse459.ip@gmail.com**. Please do not forget to write the names of people in your groups. Detailed report should include your design document and implementation details for parts 1 and 2, and your comments for part 3.