CS303 Homework Assignment 3  
Due October 31st, 2014 at Noon.

1. **15 points** Create an unambiguous grammar for an html page that consists of the following tags. Note, you can assume a tag, like “<body>”, is atomic (or equivalent to a terminal symbol.) Also, you can ignore words, just focusing on the tags, and remember that html some html elements can be included in others.

   - <html> </html>
   - <body> </body>
   - <title> </title>
   - <h1> </h1>
   - <p> </p>
   - <ul> </ul>
   - <li> </li>

2. **15 points** Create a PDA that will accept a string generated by the grammar you developed for the previous question. The PDA should be created by converting the grammar as discussed in section 6.3

3. **10 points** Design a DPDA to accept the following language:
   The set of binary strings with twice as many 0s as 1s.