HOMEWORK #6: Huffman Circuits

This homework is due electronically using canvas by midnight on Friday, October 23, 2015.

1. Read Chapter 5

2. Complete Problem 5.1.

3. **REQUIRED CHECKPOINT DUE OCTOBER 9TH:** Select two papers from the references as potential project topics or select a general topic of interest and email your choices to me at: `myers@vlsigroup.ece.utah.edu`. In this email, also include your final answer to Problem 5.1 to ensure you are on the right track.

4. Complete Problem 5.2.

   - Your code should read covering problems in the following format:

     ```
     .rows 5
     .cols 5
     .names x1 x2 x3 x4 x5
     1 1 - - -
     1 0 0 1 -
     - 1 1 - 1
     - - - 0 1
     - - 1 1 -
     .e
     ```

   - The output should be the list of variables that got assigned to one. For this example, that would be:

     ```
     x1 x3
     ```

   - You are free to use any programming language you like as long as you provide instructions on how to compile and run your code.

   - This problem should be turned in electronically using canvas.

5. Read paper(s) on your selected project topic and write a project proposal. It should include a clear plan of what you intend to do for your project and exactly what you expect to accomplish. It should reference any papers that are related to your project. This should be no more than 1 page long. Submit this proposal using canvas.