CS314: Algorithms Homework 1

Required Problems

- 1. Problem 6 from Chapter 2 of the text (on page 68)
- 2. Problem 2 from Chapter 3 of the text (on page 107)
- 3. Extra Credit: Consider the following 3 statements about a graph G:
 - (a) G is connected
 - (b) G does not contain a cycle
 - (c) G has n-1 edges

Prove that any two of the statements immediately implies the third. Note that this will require 3 different proofs!