

Quiz #2 possible questions

1. Given a small graph G ,
 - a. Mark its simplicial vertices by “s” and non-simplicial by “n”;
 - b. Use MCS to find its vertex ordering;
 - c. Check if it is a chordal graph by analyzing if the ordering produced by MCS is a perfect elimination ordering of G .
2. Given two vertices of a small graph G ,
 - a. show a minimal separator separating those vertices in G ;
 - b. show a largest chordless cycle that contains those two vertices.
3. Given a chordal graph with its perfect elimination ordering, find
 - a. its largest clique and its clique number;
 - b. its proper coloring and its chromatic number;
 - c. its largest independent set and its stability number;
 - d. its minimum clique cover and its clique cover number.

Date: Wednesday, 03/09/2016 in class.