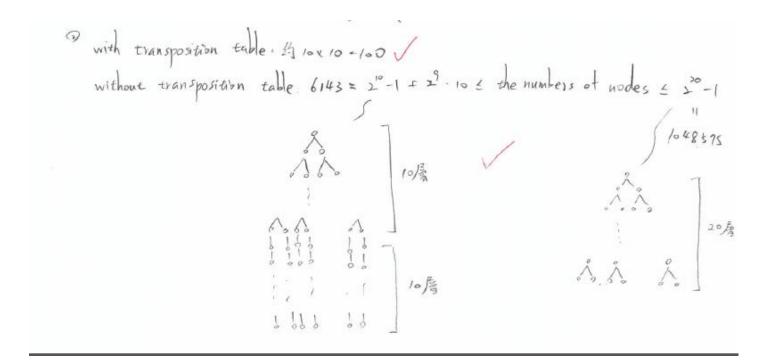
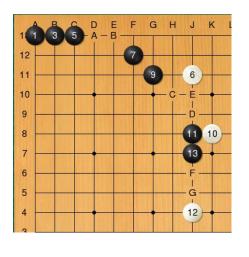
Homework #6 of the course: Theory of Computer Games.

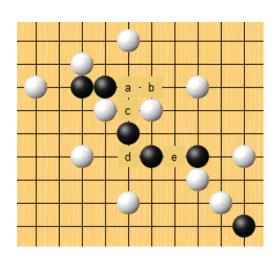
1. For DLP game with "aabcdeabcdbcdeabcdee", draw the dependency-based search tree to solve this. Also describe how many nodes to explore, if use the traditional search with and without transposition table respectively.

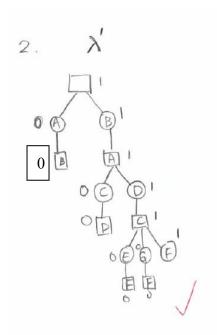
anbede abed be de abedee eeabod bodea bodee

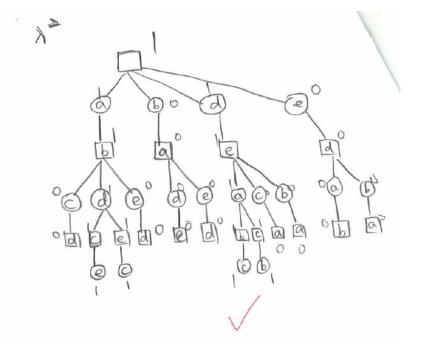


2. Consider the Gomoku game. For the lower left case, where Black to move, depict its λ^1 -tree and also evaluate its value. For the lower right case, where Black to move and to win, depict its λ^2 -tree.

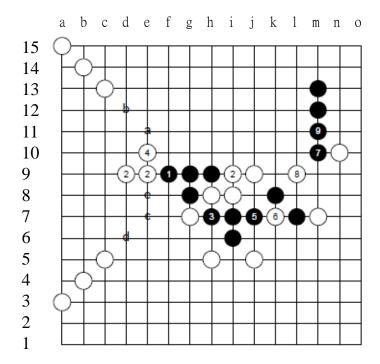




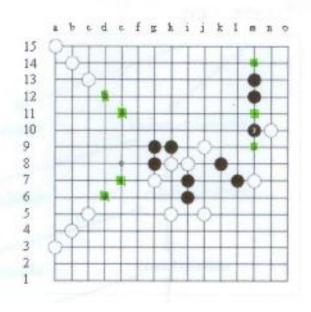




3. If black 1 is played at 7 (m10), describe its relevance zone, that is, all the next $\lambda 2$ -moves by white. Note: you should take all pieces marked with numbers out and then put a black piece at m10.







d12, d6, c11, c7, m14, m11, m9