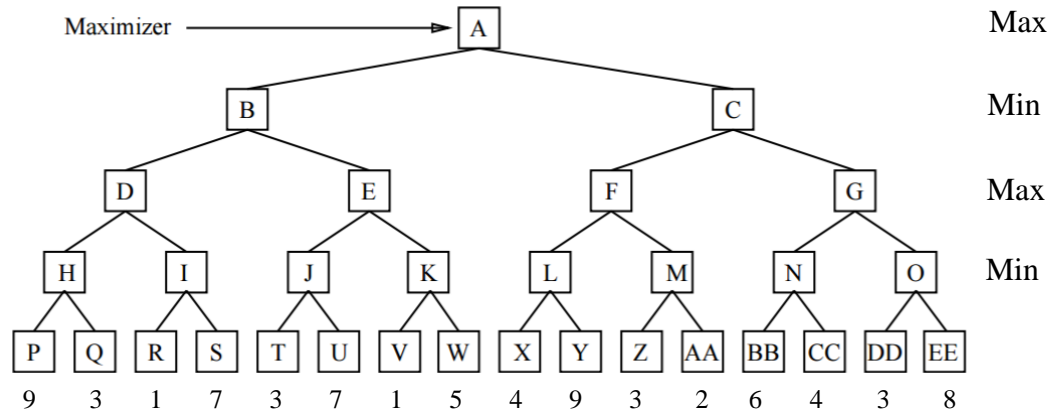


CS 4700: Foundations of Artificial Intelligence  
Spring 2018  
Homework 3  
Due: Tuesday, March 13, 4:00PM

1. Textbook: Exercise 5.9 parts (b) – (e)
2. Consider the following game tree for a hypothetical game:



- a. Which move should be made at the top level (Left or Right)? What is its value?
- b. Which nodes get pruned if you use alpha-beta pruning when you explore successors of states going left-to-right?
- c. Give the answer to (b) when successors are explored right-to-left.