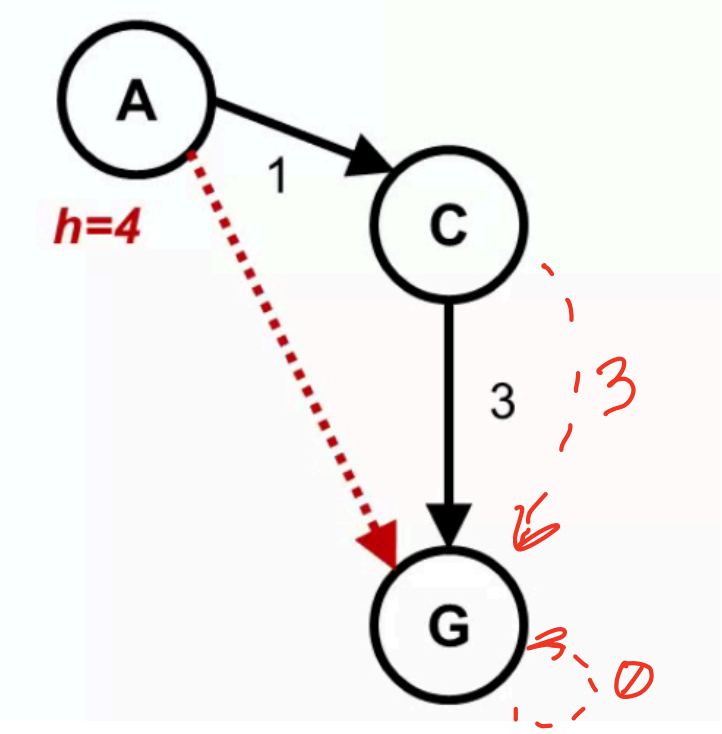
Name:

NetID:

1.) Are the heuristic distances (dashed lines) used on the following graph admissible, consistent, or both? Please explain your reasoning.



Answer: With the following assumptions made, It is both admissable and Consistent! (2 pts.)

Admissable: $h(n) \leq d(n, g)$ $\forall$ nodes

Consistent: $h(n) \leq d(n, n') + h(n')$ $\forall$ node/child pairs

2.) Given the following tree, perform the minimax algorithm for a three-player game. Assume the tuples are ordered in a top-down oriented fashion relative to the players. Show the expected tuple at each empty node of the tree (3 pts.).