

Q11: Short Answer: Games

Problem 11: Short Answer: Games

Consider an adversarial game tree where the root node is a maximizer, and the minimax value of the game is v_M . Now, also consider an otherwise identical tree where every minimizer node is replaced with a chance node (with an arbitrary but known probability distribution). The expectimax value of the modified game tree is v_E . Mark each whether the following statements are true or false.

Part 1

0.0/2.0 points (ungraded)

v_M is guaranteed to be less than or equal to v_E .

☒ True ✓

☐ False

Submit

You have used 0 of 1 attempt

i Answers are displayed within the problem

Part 2

0.0/2.0 points (ungraded)

Using the optimal *minimax* policy in the game corresponding to the modified (chance) game tree is guaranteed to result in a payoff of at least v_M .

Typesetting math: 72%

☒ True ✓

☐ False

Submit

You have used 0 of 1 attempt

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Part 3

0.0/2.0 points (ungraded)

Using the optimal *minimax* policy in the game corresponding to the modified (chance) game tree is guaranteed to result in a payoff of at least v_E .

☐ True

☒ False ✓

Submit

You have used 0 of 1 attempt

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