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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

2/2 points (ungraded)

 $oldsymbol{v_M}$ is guaranteed to be less than or equal to $oldsymbol{v_E}$.

● True ✔	•		
False			
Submit			

✔ Correct (2/2 points)

Part 2

2/2 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 .

● True ✔
O False
Submit
✓ Correct (2/2 points)
Part 3 2/2 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
✓ Correct (2/2 points)