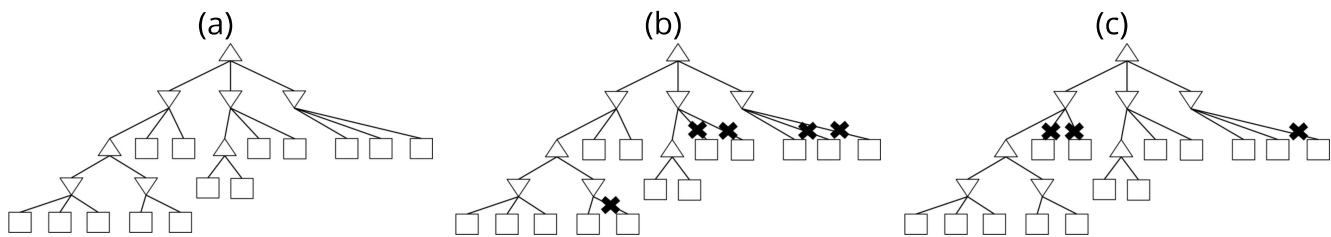


hw3_games_q6_possible_pruning

Question 6: Possible Pruning

5/5 points (ungraded)

Assume we run $\alpha - \beta$ pruning, expanding successors from left to right, on a game with tree as shown in Figure (a) below.



- ☒ There exists an assignment of utilities to the terminal nodes such that no pruning will be achieved (shown in Figure (a)).
- ☒ There exists an assignment of utilities to the terminal nodes such that the pruning shown in Figure (b) will be achieved.
- ☐ There exists an assignment of utilities to the terminal nodes such that the pruning shown in Figure (c) will be achieved.
- ☐ None of the above.

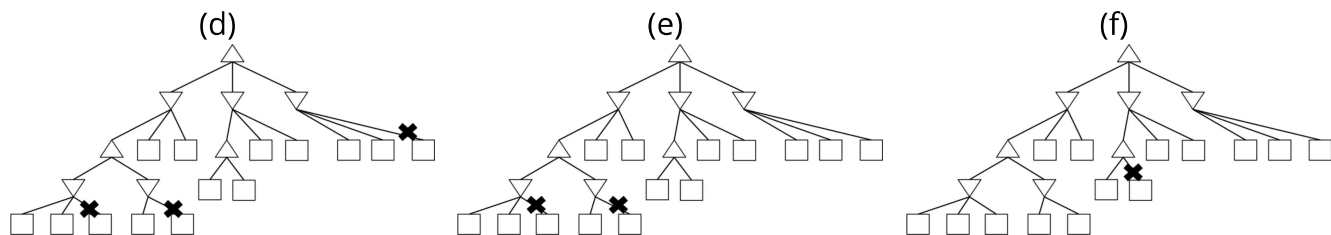


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✓ Correct (5/5 points)

problem

5/5 points (ungraded)



☐ There exists an assignment of utilities to the terminal nodes such that the pruning shown in Figure (d) will be achieved.

☐ There exists an assignment of utilities to the terminal nodes such that the pruning shown in Figure (e) will be achieved.

☐ There exists an assignment of utilities to the terminal nodes such that the pruning shown in Figure (f) will be achieved.

☒ None of the above.



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✓ Correct (5/5 points)

Note this is a challenging question, so we have provided an optional hint. It will benefit you most if you first think about this problem on your own, and then if stuck, use the hint to guide you. To read the hint click on the hint button. [Hint](#)