

This handout includes space for every question that requires a written response. Please feel free to use it to handwrite your solutions (legibly, please). If you choose to typeset your solutions, the `README.md` for this assignment includes instructions to regenerate this handout with your typeset L<sup>A</sup>T<sub>E</sub>X solutions.

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1.a

some of my stuff here

$$V_{minimax}(s, d) = \begin{cases} Utility(s) & \text{if } \text{IsEnd}(s) \\ Eval(s) & \text{if } d = 0 \\ \max_{a \in Actions(s)} V_{minimax}(Succ(s, a), d) & \text{if } \text{Player}(s) == \text{agent, i.e. index}=0 \\ \min_{a \in Actions(s)} V_{minimax}(Succ(s, a), d) & \text{if } \text{Player}(s) == ghost_i \text{ and } i < numGhosts \\ \min_{a \in Actions(s)} V_{minimax}(Succ(s, a), d - 1) & \text{if } \text{Player}(s) == ghost_i \text{ and } i = numGhosts \end{cases} \quad (1)$$

3.a