

CS-49: Game Theory


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### Problem 5.


Provide two positions for DOMINEERING that belong to each of the four outcome classes for combinatorial games.

a) Previous player to win. (P)



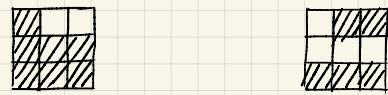
After next player moves, opponent can respond, then board runs out of moves.

b) Next player to win. (N)



In both cases, after next player moves the other player runs out of moves.

c) Horizontal to win (Horizontal is Richard; R)



only a single move available that favors Horizontal.

While vertical has a move, Horizontal wins regardless of who moves first.

d) Vertical to win (Vertical is Louise; L)

For trivial solutions, just rotate the two solutions in (c):

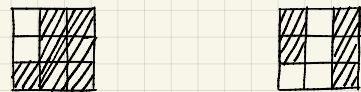


FIGURE 1. Positions for Combinatorial Outcome Classes in DOMINEERING