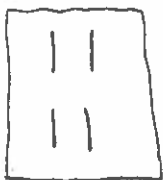
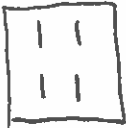


## HW: MINIMAX I

Suppose it is Player A's turn in a game of Nim (for a refresher on the rules of Nim, watch the lecture video "Minimax (part two)"). The current configuration of the board has two matchsticks in each row:



They're playing a weighted version of Nim where you get  $k$  points if your opponent takes the last matchstick, where  $k$  is the row of the last match remaining (i.e. if your opponent is forced to take the last matchstick and it happens to be in row 2, you get 2 points).

What is the minimax value of  for player A if it is currently Player A's turn? Draw out the minimax game tree and annotate each node with its minimax value, i.e. complete the following

