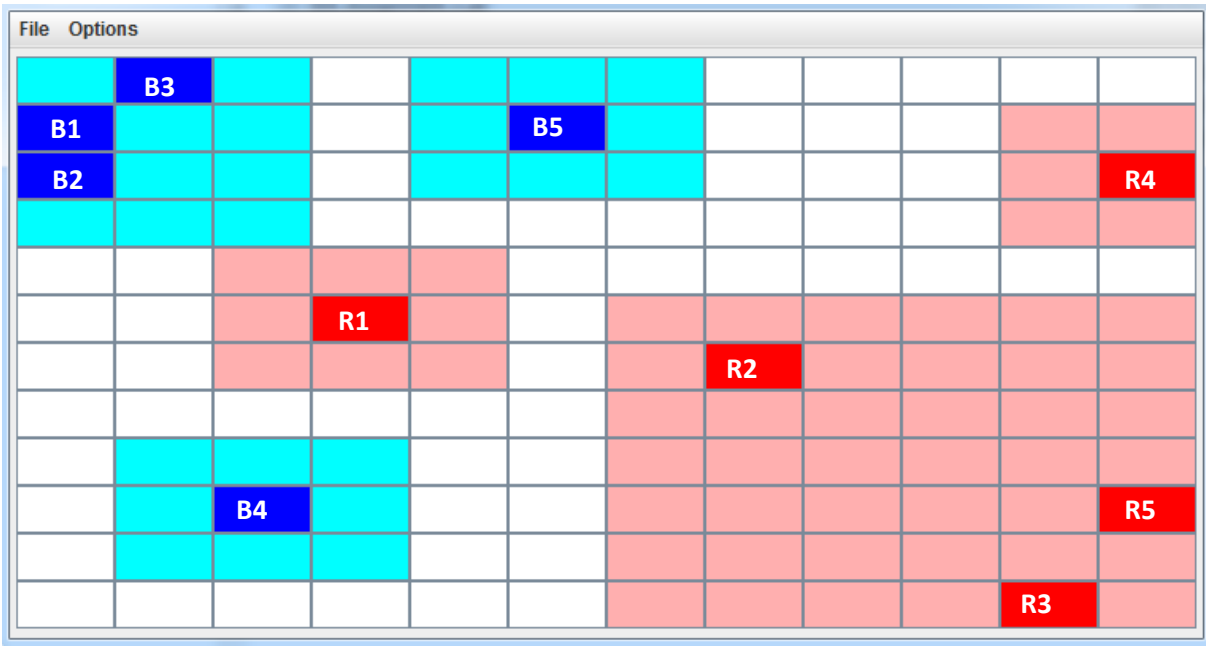
COS 314 Project 1

A game scenario for clarification:



In the example above:

- The covered areas of cells R2, R3 and R5 join, because the corners of their covered areas touch.
- If it is blue's turn, it can take red in the following ways:
    - If B1 moves 3 blocks downward, it takes R1. Because R1 turns blue, the covered area expands to include B5 as well. This results in R2 being taken, which expands the blue covered area to include B4. Red cells R3, R4 and R5 remain untaken.
    - If B2 moves 2 blocks downward, it takes R1 with the same outcome as the bullet above.
- Note, that if B2 moves 1 block downward, R1 is not taken, because the blue covered area does not share an edge with R1 (although the corner touches the cell, it is not taken). Similarly, if B3 moves 3 blocks downward, R1 is not taken.
- B4 and B5 cannot take any red cells in one turn.
- If it is red's turn, it can win in 1 move by R1 moving one block to the right. This results in the following:
    - The covered area of R1 joins with the covered areas of all other red cells.
    - This results in the taking of B4 and B5.
    - With B4 and B5 turning red, the red covered area extends to the last 3 blue blocks (B1, B2, B3).