You must also briefly discuss your approach to solving this problem in a separate file called report.pdf, submitted alongside your program. Your discussion should address the following:

1. With reference to the lectures, which search strategy did you use? Discuss implementation details, including choice of relevant data structures, and analyse the time/space complexity of your solution.
2. If you used a heuristic as part of your approach, clearly state how it is computed and show that it speeds up the search (in general) without compromising optimality. If you did not use a heuristic based approach, justify this choice.
3. Imagine that all Blue tokens had to be removed from the board to secure a win (not just one target coordinate). Discuss how this impacts the complexity of the search problem in general, and how your team’s solution would need to be modified in order to accommodate it.

Your report can be written using any means but must be submitted as a PDF document. Your report should be between 0.5 and 2 pages in length, and must not be longer than 2 pages (excluding references, if any). The quality and readability of your report matters, and marks won’t be given where discussion is vague or irrelevant to topics discussed in the subject.

TODO write report

Heuristic is

Min of

Manhattan distance to column + number of free places in column

Manhattan distance to row + number of free places in row

Divided by the placement with the most squares

Min heap is used for time complexity

Non admissible break-even is most important for improving performance