130. Surrounded Regions

130 Surrounded Regions

- Depth-first Search
- Breadth-first Search
- Union Find

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Description
Given a 2D board containing 'X' and '0' (the letter O), capture all regions surrounded by 'X'.
A region is captured by flipping all '0' s into 'X' s in that surrounded region.
For example,
xxxx
X 0 0 X
X X O X
X O X X
After running your function, the board should be:
xxxx
X X X X
X X X X
X O X X
1. Thought line
2. Depth-first Search

3. Breadth-first Search

4. Union Find