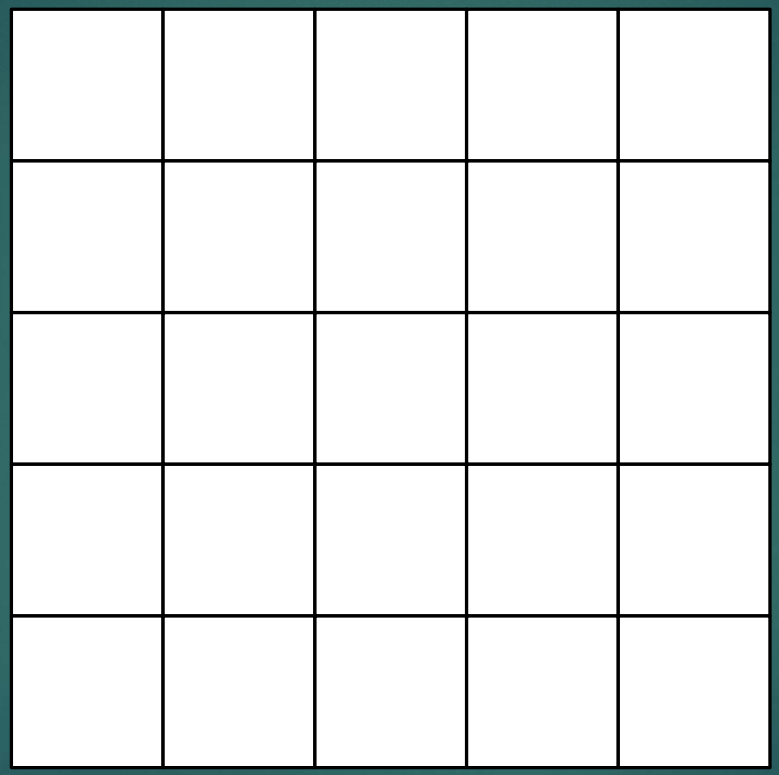
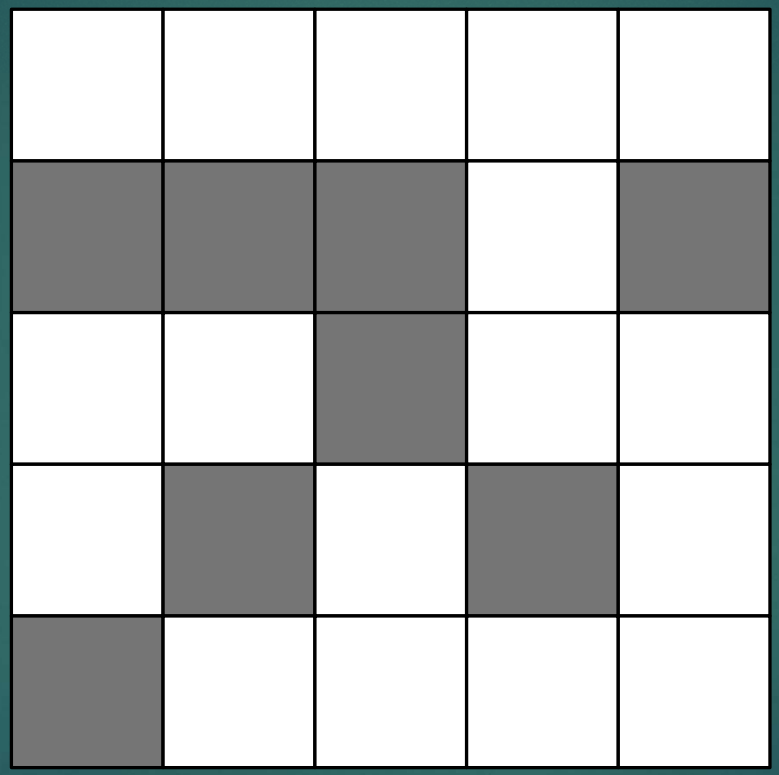
MAZE PROBLEM

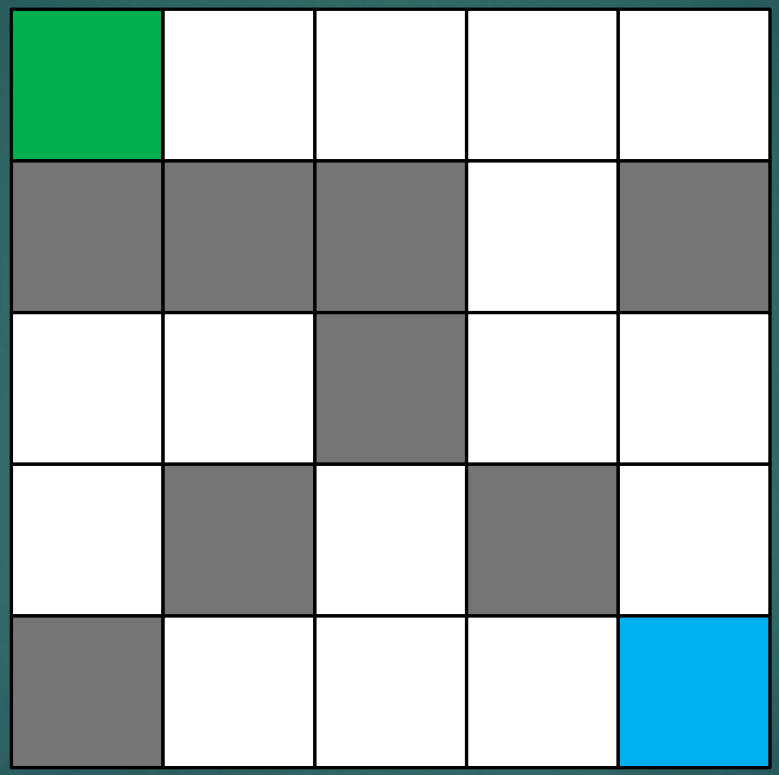
BACKTRACKING

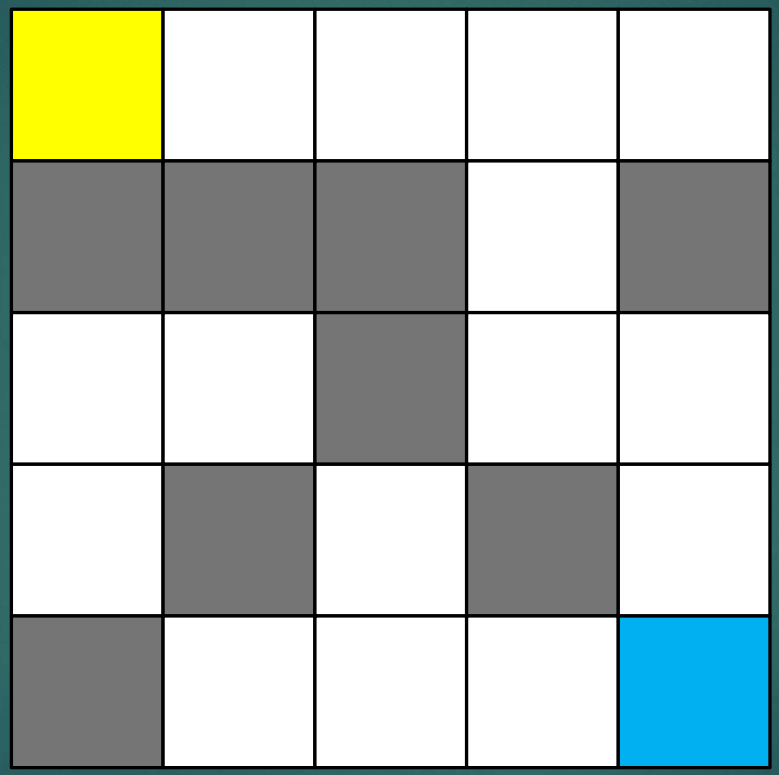
Maze solver

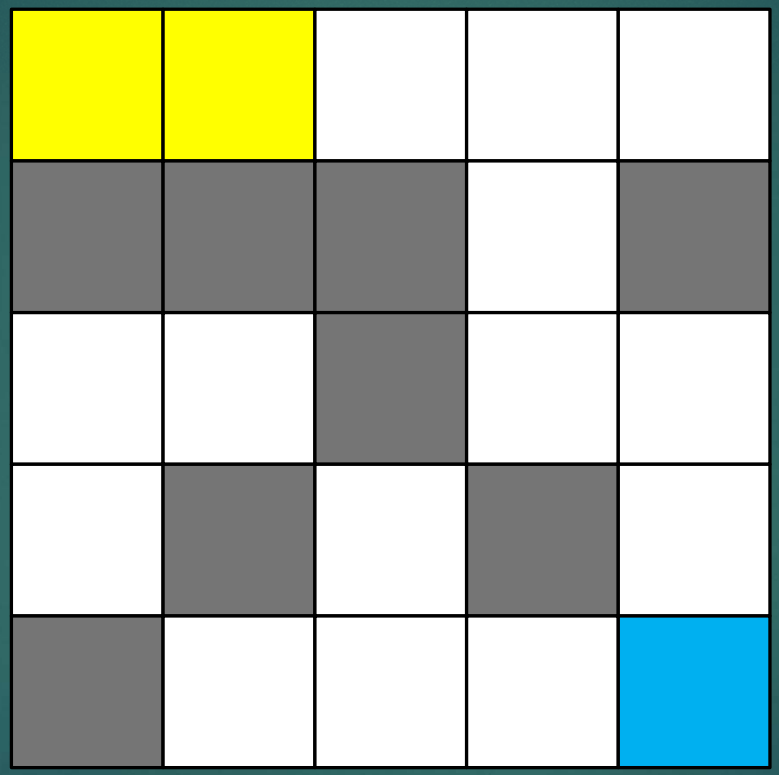
- It is an important problem in robotics: how to navigate a given robot
- For example: vacuum cleaner
- There may be several obstacles
- So again → there are constraints // obstacles
- It is like a depth-first search

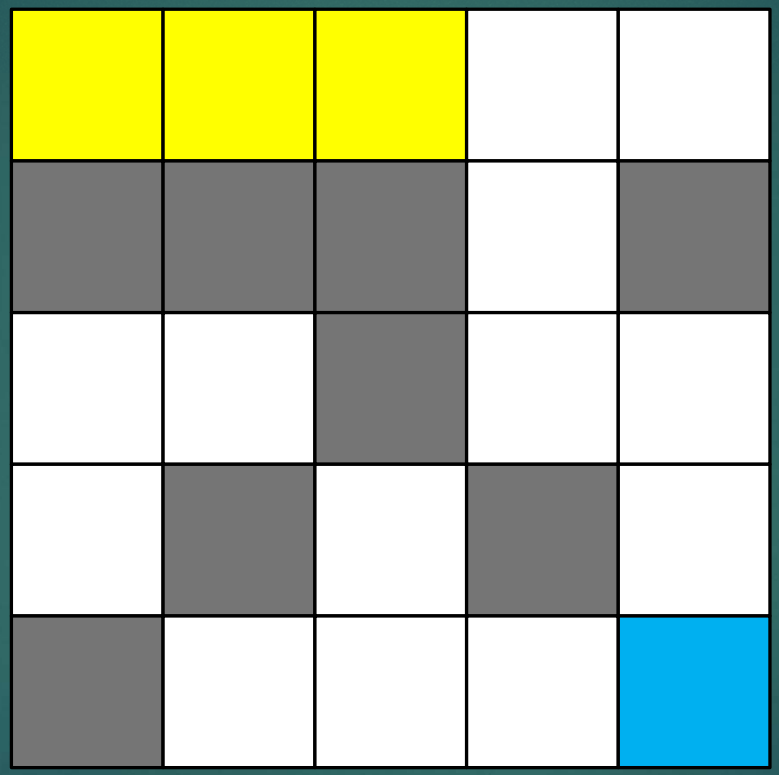


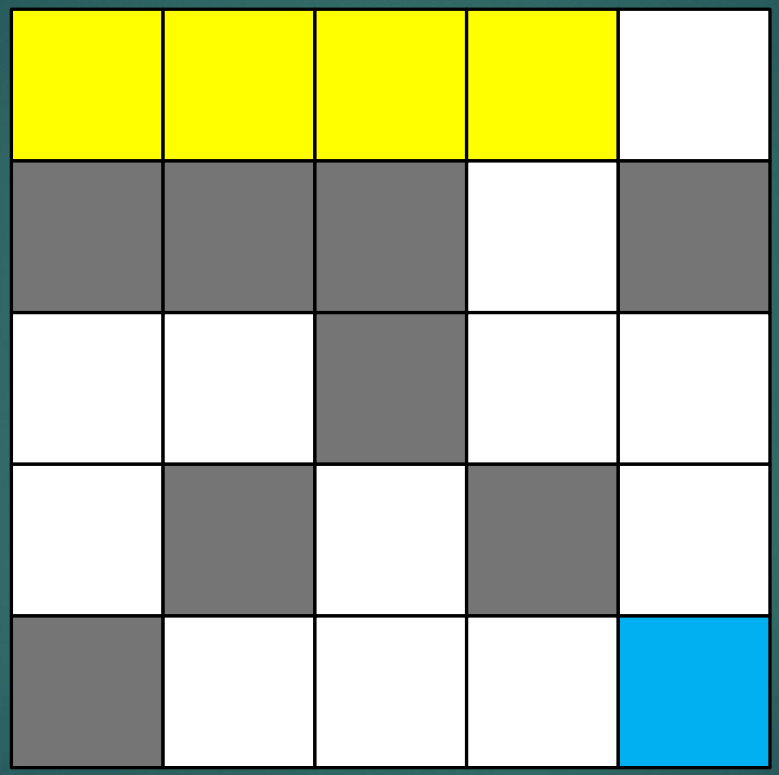




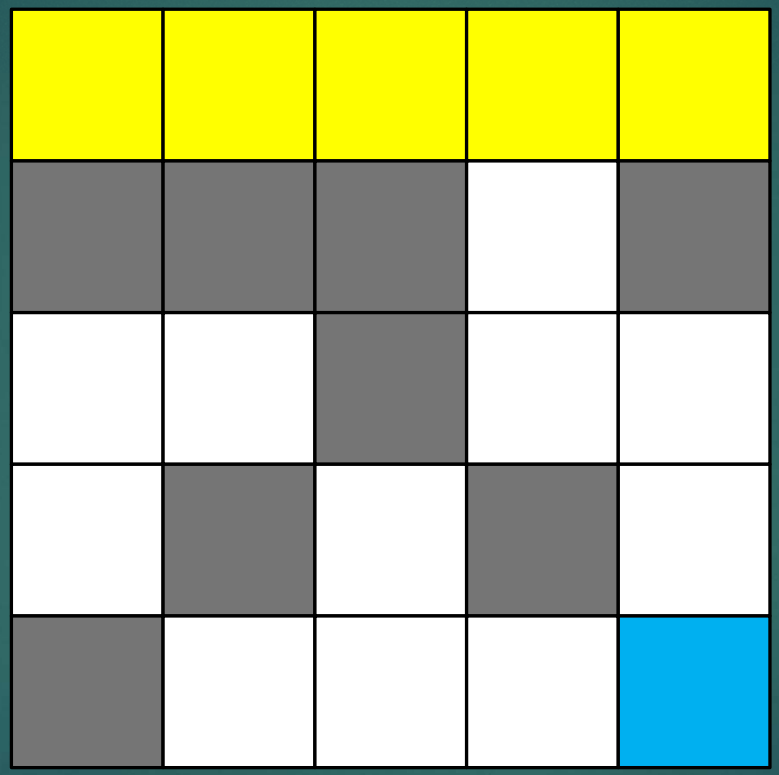


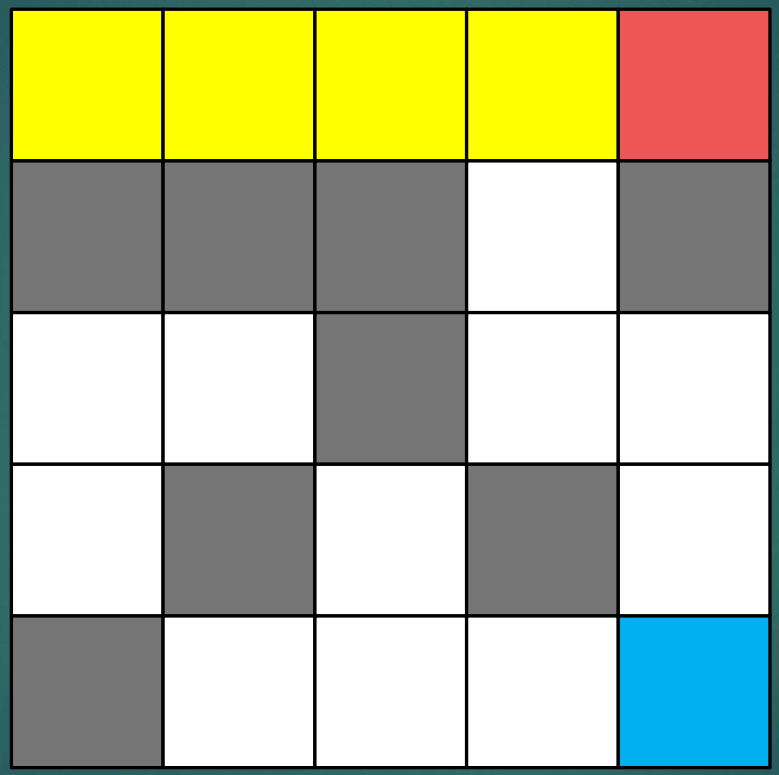


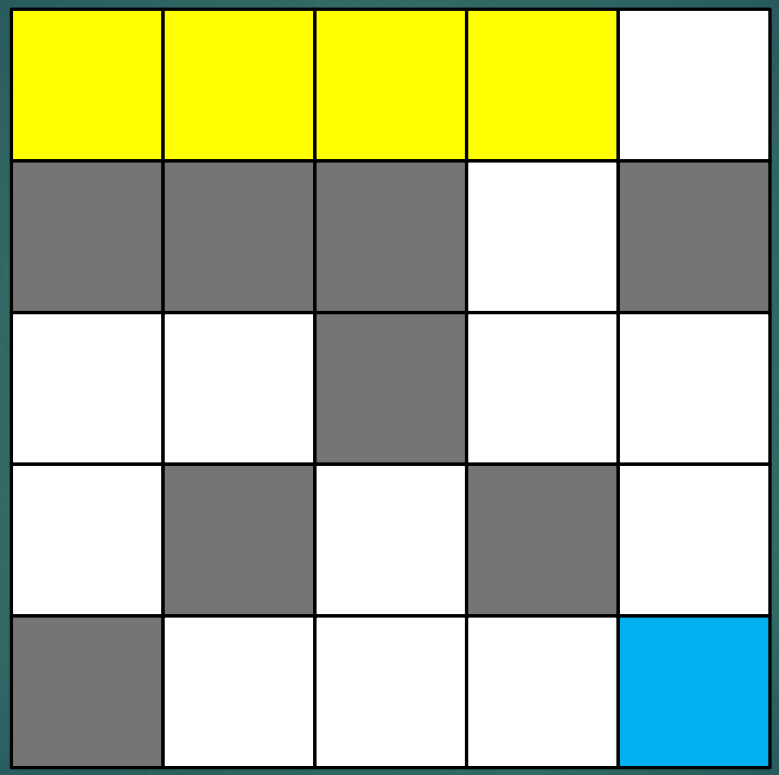


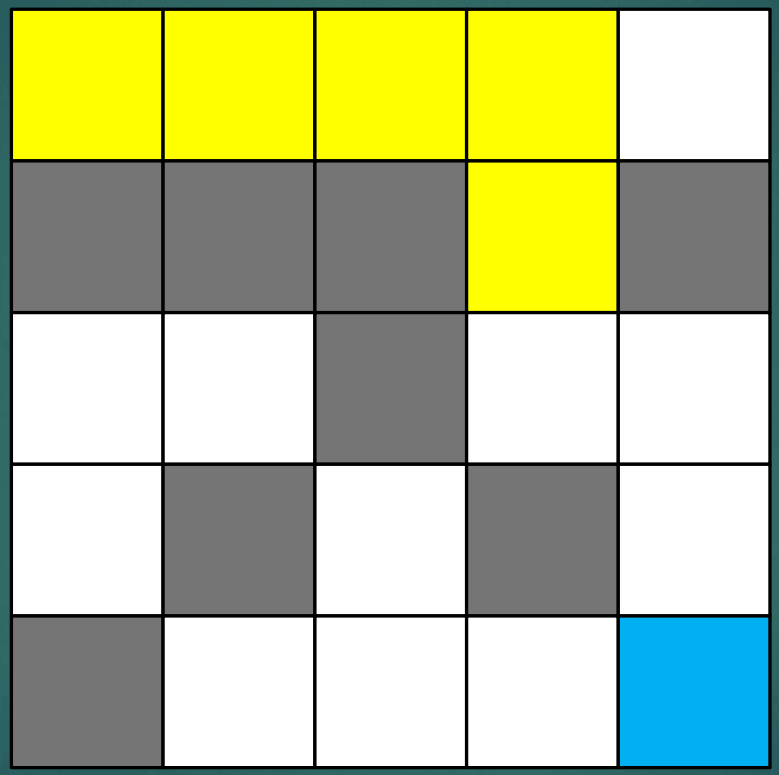


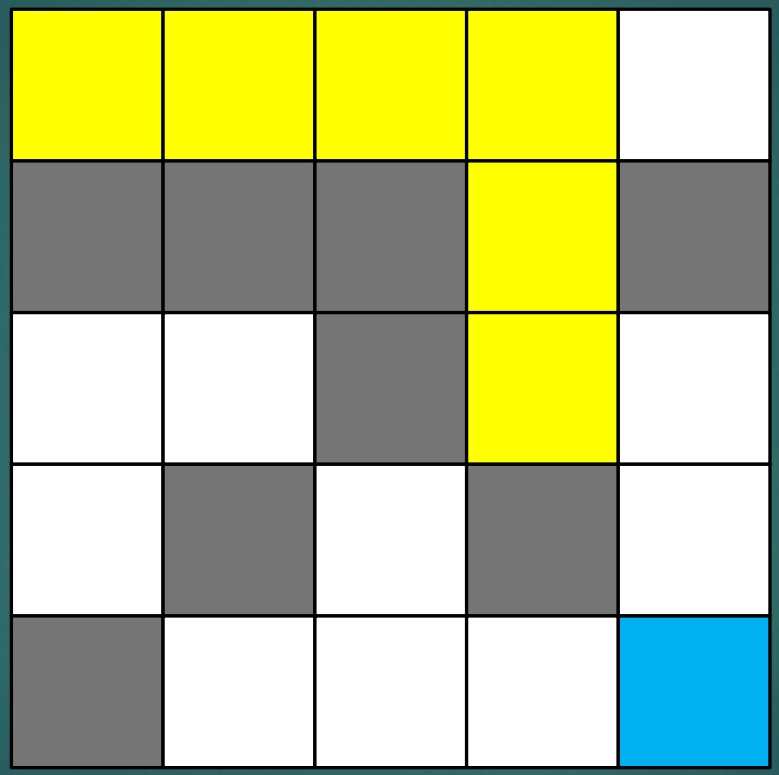
Deadend: have to backtrack !!!

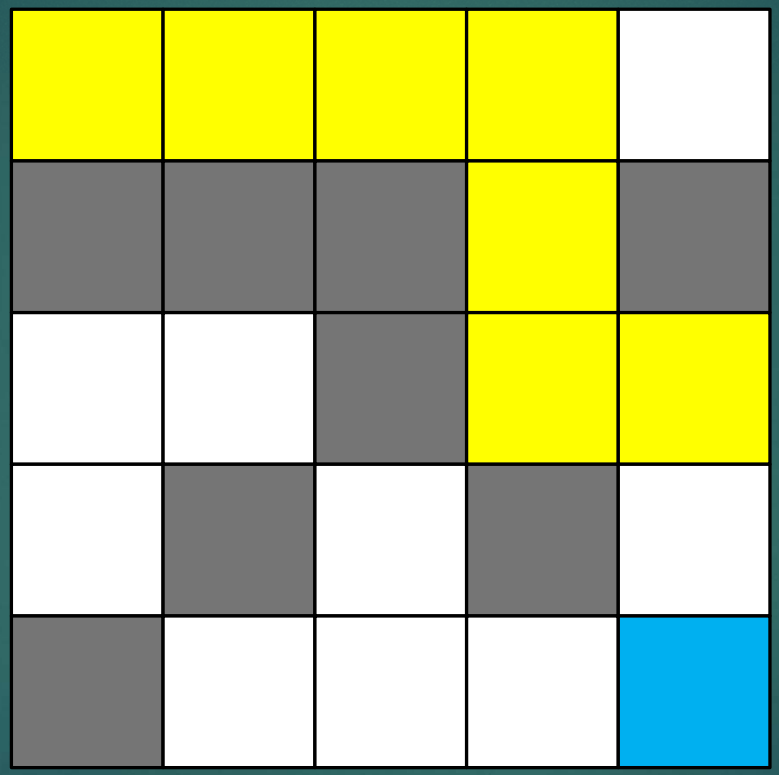


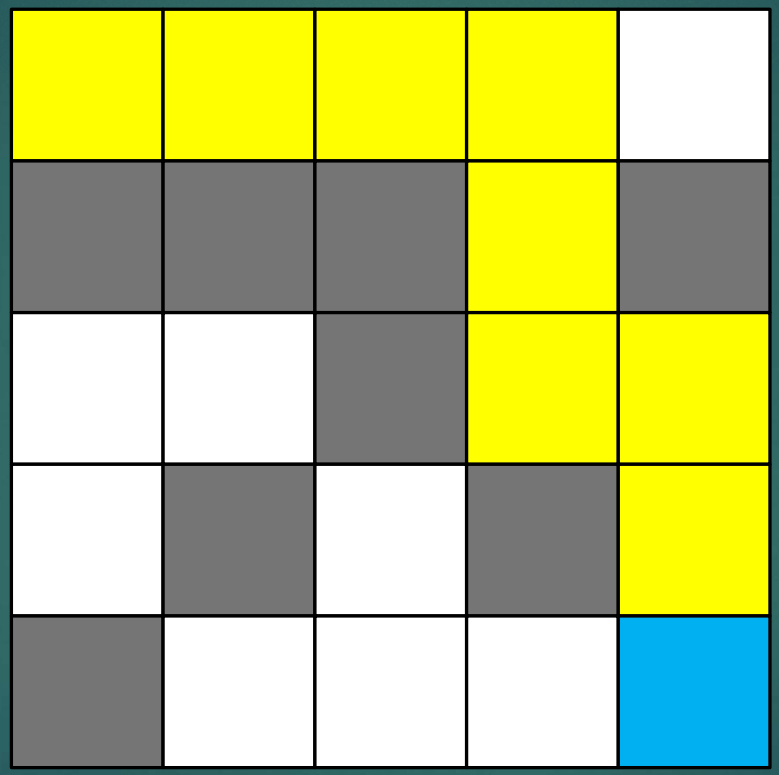


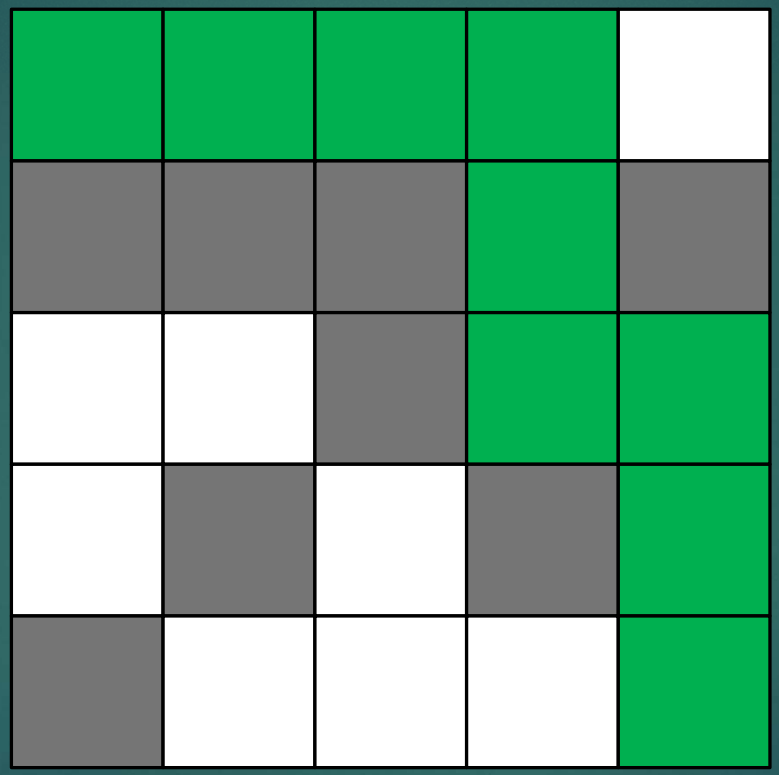




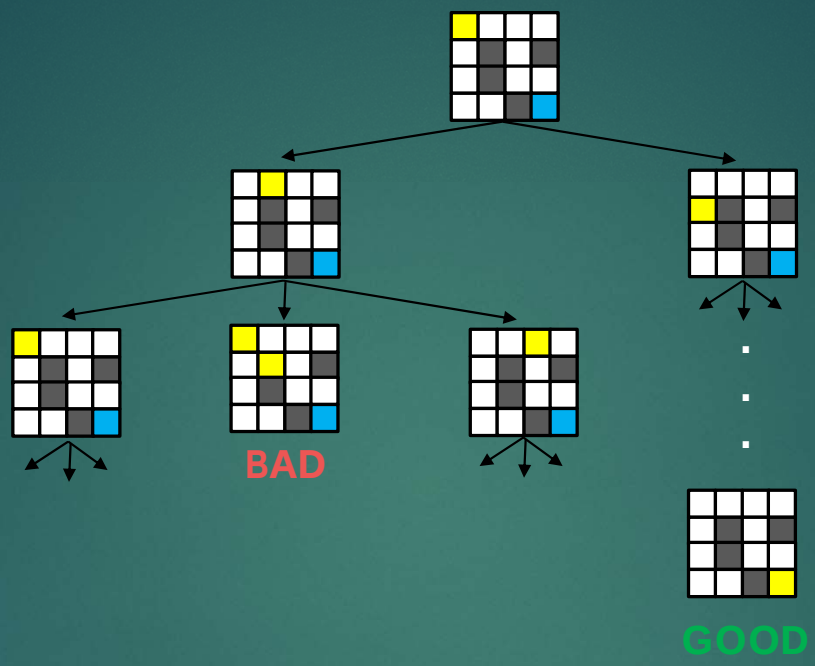








Search tree


BAD
GOOD