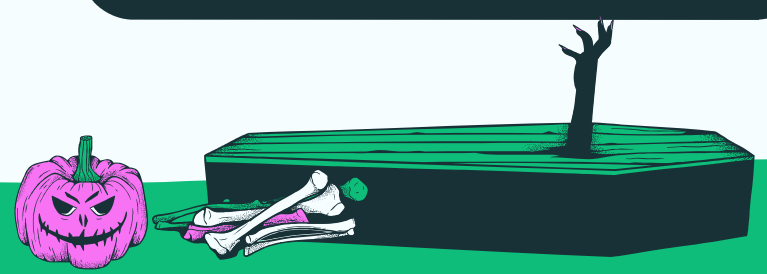
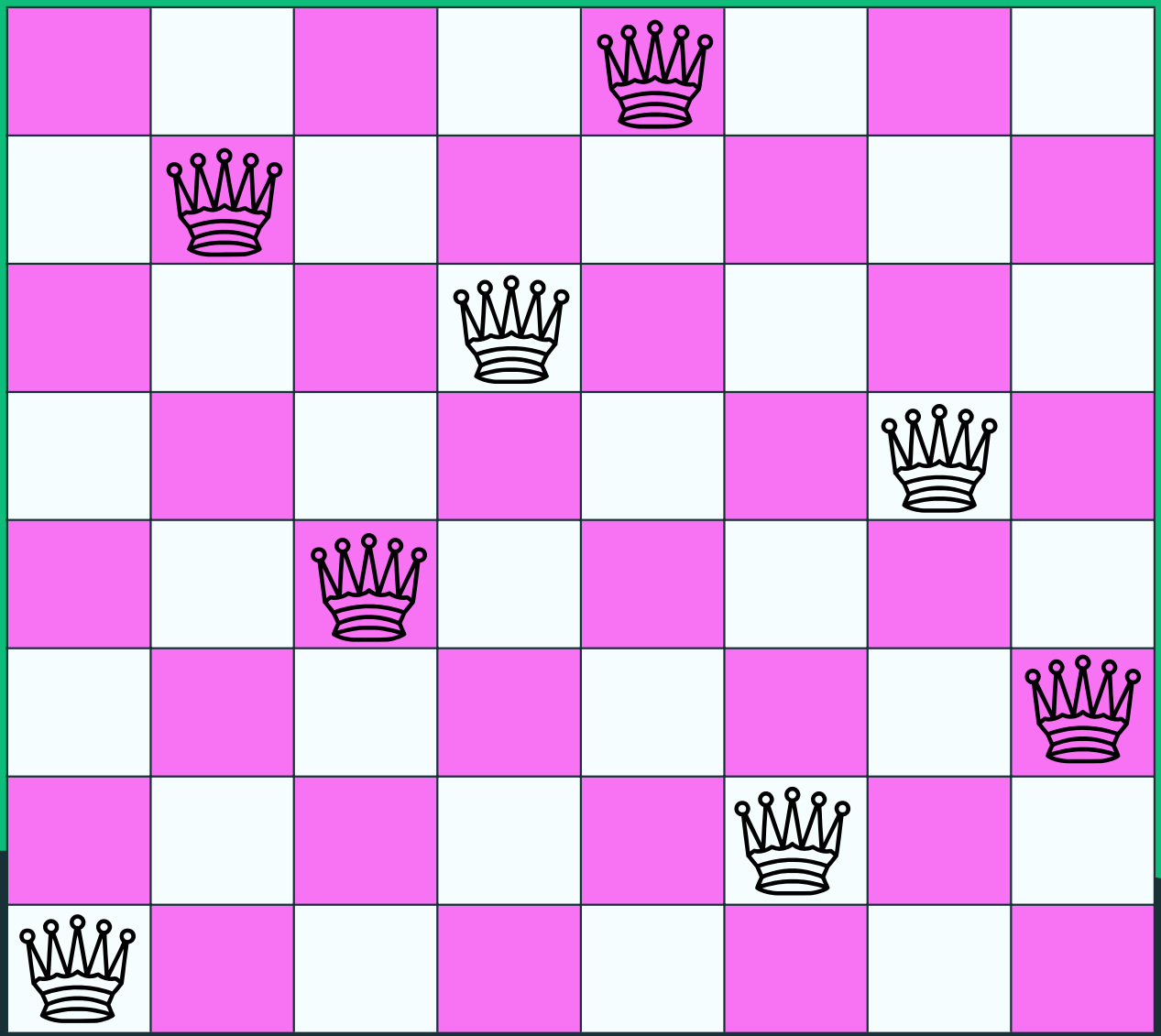
Backtracking

Backtracking is a general algorithmic technique that explores all possible configurations to find a solution to a computational problem.
It "backtracks" to the previous step to try a different path



BACK TO **AGENDA PAGE**

Solving the 8-Queens Problem with Backtracking

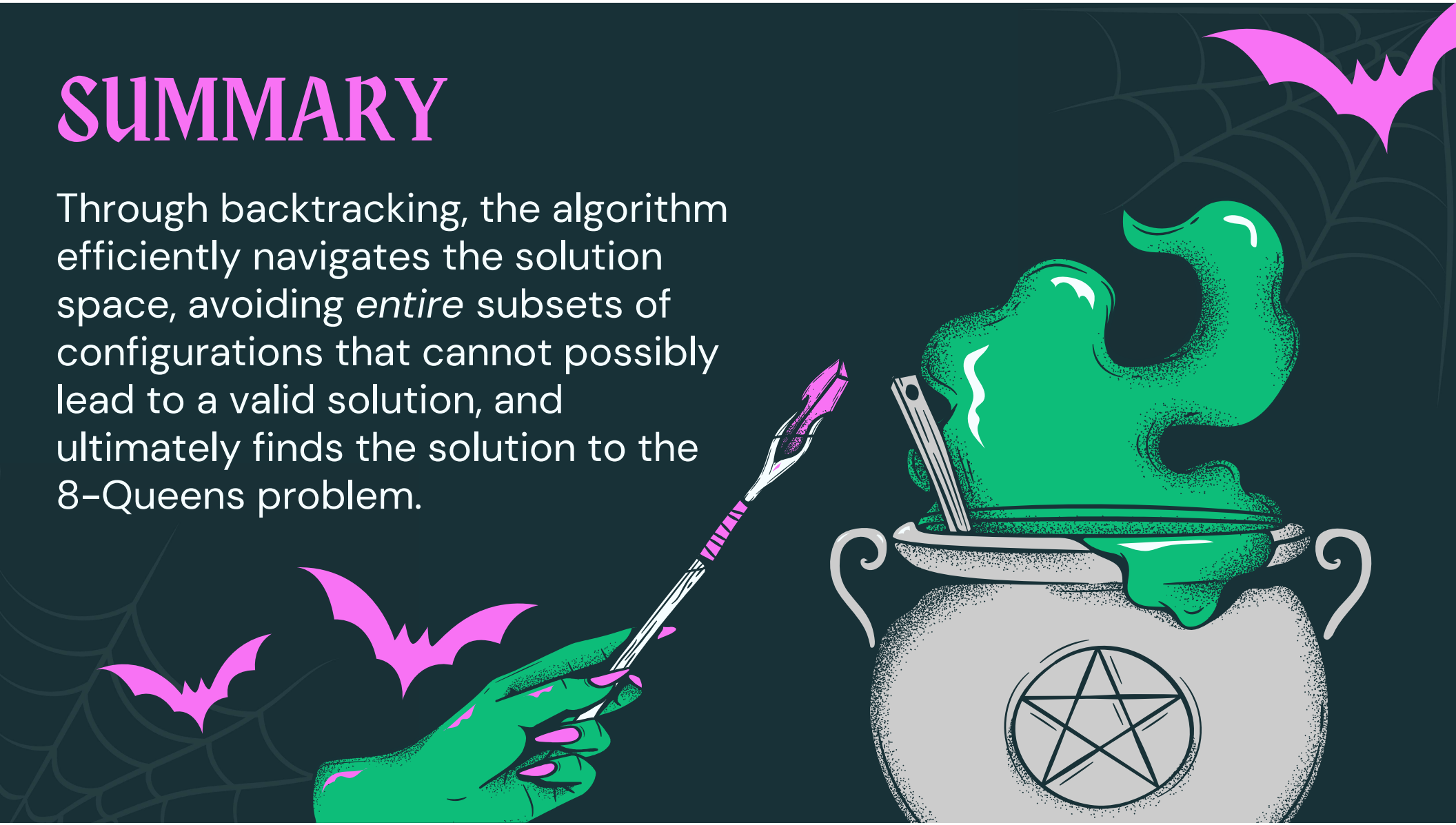


SOLUTION:

1. Start in the Leftmost Column
2. Place a Queen in the Current Column
3. Check for Threats
4. Backtrack if Necessary
5. Repeat
6. Found a Solution

SUMMARY

Through backtracking, the algorithm efficiently navigates the solution space, avoiding *entire* subsets of configurations that cannot possibly lead to a valid solution, and ultimately finds the solution to the 8-Queens problem.



Thank you!