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Place N queens on an N by N chess board such that none of the N queens are attacking any other queen.

How do we solve this with search:

What is a state?

What is the start state?

What is the goal?

How do we transition from one state to the next?

Search algorithm

add the start state to to_visit

Repeat

- take a state off the to_visit list
- if it's the goal state Is this a goal state?
- we're done!
- if it's not the goal state What states can I get to from the current state?
 Add all of the next states to the to_visit list

Any problem that we can define these three things can be plugged into the search algorithm!

N queens problem

http://en.wikipedia.org/wiki/Eight_queens_puzzle_