Algorithm: Breadth-First Search

- 1. Create a variable called NODE-LIST and set it to the initial state.
- 2. Until a goal state is found or NODE-LIST is empty do:
- (a) Remove the first element from NODE-LIST and call it E. If NODE-LIST was empty, quit.

- (b) For each way that each rule can match the state described in E do:
- i. Apply the rule to generate a new state.
- ii. If the new state is a goal state, quit and return this state.
- iii. Otherwise, add the new state to the end of NODE LIST.

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