

CSP search algorithms

- Depth-first search (depth = n)
- Initial state: $\{\}$
- Successor function: assign **any variable**: $d \cdot (n - l)$
- Goal test: all variable are assigned.
- Inefficient: $d^n \cdot n!$
- Improvement: assign variable in a **fixed order (backtracking!)**

Improving the efficiency of backtracking

Heuristics

- Starting from minimum remaining value
- Choosing the least constraining value
- Forward Checking (Pruning)