

Overview

- Constrain satisfaction
 - Solve a sudoku together
- [Week 3 Q/A] Local search algorithm
- Game Playing -> next Friday
- Midterm Review -> next Friday

Constraint satisfaction problem

- Basic elements:
 - $\mathcal{X} = \{X_1, \dots, X_n\}$: set of variables
 - $\mathcal{D} = \{D_1, \dots, D_n\}$: domains (specific values of \mathcal{X})
 - \mathcal{C} : set of constraints
- State of CSP:
 - Complete assignment: all variables are assigned
 - Partial assignment
 - Consistent: not violating any constraints