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Constraint Programming

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Problem Statement

- Scheduling Problems
- Finding an optimal solution
- Preference satisfaction
- Within a negotiable time frame

Solution: Why Constraint Programming

- learning opportunity
- Improve Critical Thinking and problem solving
- Better understanding of How python works
- Build something practical from scratch

Development

- Reader
  - -Encode The different Objects
    - Rooms
    - Instructors
    - Groups of Students
    - Units/Learning Modules
    - Days of the week and Times of the day
- Definition
  - Static Variable – Unchanging Objects

Constraint Algorithm

- Initializing
  - Domain
  - Assignment
- Node Consistency
- Recursive Backtracking
  - Variable and Value Instantiation

Future Prospects: What Next

- Choosing Instructors Dynamically
- Building a frontend interface
- Getting into more complex algorithms