

Topics for Today

- Basic problem solving approaches
- Review of solutions
 - Hartals
 - Contest Scoreboard
- Problems for today

Basic Problem Solving Approaches

- Algorithms + Data Structures = Programs
 - Algorithmic terms/needs...?
 - Data structure terms/needs...?
- Reading the problem
 - What is the input like? Number of cases?
 - Look for variables and methods
- Concepts + Details = Solutions
 - Understand how to solve
 - Handle the details

Hartals Solutions

- Review problem
- How do you start?
- Algorithmic terms/needs...?
- Data structure terms/needs...?

- Templates

Solutions to Discuss

- Hartals
- Contest Scoreboard

Problems for Today

- WERTYU
- Where's Waldorf?
- Common Permutation
- Doublets [use Uva – PC failed me]
 - Efficient algorithms needed
 - Finding all possible doublets (linear algorithm with big constant better than quadratic algorithm with small one)
 - Search doublet space: breadth first, not depth first