Class - List 08a

Introduction.

Tasks after lecture about fundamental techniques.

Task List

All next problems are from https://icpcarchive.ecs.baylor.edu/index.php. Then choose links: "Browse Problems" -> "ICPC Archive Volumes" -> then volume XYZ has problems with numbers from XYZ*100 to XYZ*100+99. Prepare a method in which as argument are just read to some collection. E.a. for "Lollies" it can be a two arrays (for number of lollies and delays), or an array of objects from class DayOfCalendar (e.a. with two fields lollies and delay).

- 1. Propose an algorithm to solve the problem specified below using **greedy algorithm**. Propose an efficient implementation of the algorithm.
 - a. 3004 Change
 - b. 2535 Magnificent Meatballs
 - c. 2326 Moving Tables
- 2. Propose an algorithm to solve the problem specified below using **dynamic programming**. Propose an efficient implementation of the algorithm.
 - a. 2487 Lollies
 - b. 3390 Pascal's Travels
 - c. 3144 Lenny's Lucky Lotto Lists
- 3. Propose an algorithm to solve the problem specified below using "divide & conquer". Propose an efficient implementation of the algorithm.
 - a. 2122 Recognizing S Expressions