Competitive Programming 3 Textbook

Notes / Attempted Questions

# Easy Problems

Super Easy

* **UVa 11172 - Relational Operators \*** (ad hoc, very easy, one liner)
  + Accepted
* **UVa 11498 - Division of Nlogonia \*** (just use if-else statements)
  + Accepted
* **UVa 11727 - Cost Cutting \*** (sort the 3 numbers and get the median)
  + Accepted

Easy

* **UVa 10114 – Loansome Car Buyer \*** (just simulate the process)
  + Accepted
* **UVa 11559 – Event Planning \*** (one linear pass)
  + Accepted
* **UVa 11799 – Horror Dash \*** (one linear scan to find the max value)
  + Accepted

Medium

* **UVa 00573 – The Snail \*** (simulation, beware of boundary cases)
  + Accepted
* **UVa 10141 – Request for Proposal \*** (solvable with one linear scan)
  + Accepted
* **UVa 11507 – Bender B. Rodriguez \*** (simulation, if-else)
  + Accepted

# Ad Hoc

Game (Card)

* **UVa 00462 - Bridge Hand Evaluator \*** (simulation; card)
  + Accepted
* **UVa 10646 - What is the Card? \*** (shuffle cards with some rule and  then get certain card)
  + Accepted
* **UVa 12247 - Jollo \*** (interesting card game; simple, but requires good logic to get all test cases correct)
  + Accepted
  + Current solution is a bit of a cop out, uses checking for win rather than explicit if statements with full understanding of cases

Game (Chess)

* **UVa 00278 - Chess \*** (ad hoc, chess, closed form formula exists)

# Greedy Algorithms

Classical

* **UVa 11264 - Coin Collector \*** (coin change variant)
  + Accepted
* **UVa 11389 - The Bus Driver Problem \*** (load balancing)
  + Accepted
* **UVa 12405 - Scarecrow \*** (simpler interval covering problem)
  + Accepted
* UVa 12321 - Gas Station (interval covering)
  + Accepted

Involving Sorting

* **UVa 11100 - The Trip, 2007 \*** 
  + Runtime Error despite passing uDebug, might be broken for Python
* **UVa 11292 - Dragon of Loowater \*** 
  + Accepted
* **UVa 12210 - A Match Making Problem \*** 
  + Accepted
* UVa 10763 - Foreign Exchange
  + Accepted
* UVa 10026 – Shoemaker’s problem
  + Wrong answer, probably due to float comparisons
* UVa 10785 - The Mad Numerologist
  + Accepted

Non-Classical

* **UVa 10656 - Maximum Sum (II) \*** 
  + Accepted
* **UVa 10718 - Bit Mask \***
  + Wrong Answer
* **UVa 11157 - Dynamic Frog \***
  + Accepted
  + Solved by alternating usage of the small rocks
* UVa 11240 - Antimonotonicity
  + Accepted
* UVa 11900 – Boiled eggs
  + Accepted
* UVa 10340 – All in All
  + Accepted