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Competitive Programming 3: The New Lower Bound of Programming Contests

Below are my solutions to programming problems mentioned in the book. The book also has theoretical problems which I am not going to include. The book is by [Steven Halim](http://www.comp.nus.edu.sg/~stevenha) and [Felix Halim](http://felix-halim.net/) and you can [grab yourself a copy](https://sites.google.com/site/stevenhalim/). If money is an issue, the first edition of the book has now been made free which you can get from the author’s website.

**Introduction**

Getting Started: The Easy Problems

Super Easy

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* [11172 - Relational Operator](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-11172-relational-operator.html)
* [11364 - Parking](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-11364-parking.html)
* [11498 - Division of Nlogonia](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-11498-division-of-nlogonia.html)
* [11547 - Automatic Answer](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-11547-automatic-answer.html)
* [11727 - Cost Cutting](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-11727-cost-cutting.html)
* [12250 - Language Detection](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-12250-language-detection.html)
* [12279 - Emoogle Balance](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-12279-emoogle-balance.html)
* [12289 - One-Two-Three](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-12289-one-two-three.html)
* [12372 - Packing for Holiday](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-12372-packing-for-holiday.html)
* [12403 - Save Setu](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-12403-save-setu.html)
* [12577 - Hajj-e-Akbar](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-12577-hajj-e-akbar.html)

Easy

* [621 - Secret Research](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-621-secret-research.html)
* [10114 - Loansome Car Buyer](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-10114-loansome-car-buyer.html)
* [10300 - Ecological Premium](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-10300-ecological-premium.html)
* [10963 - The Swallowing Ground](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-10963-the-swallowing-ground.html)
* [11332 - Summing Digits](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-11332-summing-digits.html)
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* [11799 - Horror Dash](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-11799-horror-dash.html)
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* [12157 - Tariff Plan](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-12157-tariff-plan.html)
* [12468 - Zapping](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-12468-zapping.html)
* [12503 - Robot Instructions](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-12503-robot-instructions.html)
* [12554 - A Special “Happy Birthday” Song!!!](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-12554-a-special-happy-birthday-song.html)
* IOI 2010 – Cluedo
* IOI 2010 – Memory

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* [119 - Greedy Gift Givers](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-119-greedy-gift-givers.html)
* [573 - The Snail](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-573-the-snail.html)
* [661 - Blowing Fuses](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-661-blowing-fuses.html)
* [10141 - Request for Proposal](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-10141-request-for-proposal.html)
* [10324 - Zeros and Ones](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-10324-zeros-and-ones.html)
* [10424 - Love Calculator](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-10424-love-calculator.html)
* [10919 - Prerequisites?](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-10919-prerequisites.html)
* [11507 - Bender B. Rodríguez Problem](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-11507-bender-b-rodriguez-problem.html)
* [11586 - Train Tracks](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-11586-train-tracks.html)
* [11661 - Burger Time?](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-11661-burger-time.html)
* [11683 - Laser Sculpture](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-11683-laser-sculpture.html)
* [11687 - Digits](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-11687-digits.html)
* [11956 - Brainfuck](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-11956-brainfuck.html)
* [12478 - Hardest Problem Ever (Easy)](http://www.ferociouscoder.com/blog/archives/algorithms/uva-12478-hardest-problem-ever-easy.html)
* IOI 2009 – Garage
* IOI 2009 – POI

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* [162 - Beggar My Neighbour](http://www.ferociouscoder.com/blog/archives/algorithms/uva-162-beggar-my-neighbour.html)
* [462 - Bridge Hand Evaluator](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-462-bridge-hand-evaluator.html)
* 555 - Bridge Hands
* [10205 - Stack ‘em Up](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-10205-stack-em-up.html)
* 10315 - Poker Hands
* [10646 - What is the Card?](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-10646-what-is-the-card.html)
* 11225 - Tarot scores.
* 11678 - Cards’ Exchange
* [12247 - Jollo](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-12247-jollo.html)

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* [278 - Chess](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-278-chess.html)
* [696 - How Many Knights](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-696-how-many-knights.html)
* [10196 - Check The Check](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-10196-check-the-check.html)
* [10284 - Chessboard in FEN](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-10284-chessboard-in-fen.html)
* 10849 - Move the bishop
* 11494 - Queen

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* [489 - Hangman Judge](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-489-hangman-judge.html)
* 947 - Master Mind Helper
* [10189 - Minesweeper](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-10189-minesweeper.html)
* 10279 - Mine Sweeper
* 10409 - Die Game
* 10530 - Guessing Game
* [11459 - Snakes and Ladders](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-11459-snakes-and-ladders.html)
* 12239 - Bingo!

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* 353 - Pesky Palindromes
* 401 - Palindromes
* 10018 - Reverse and Add
* 10945 - Mother bear
* 11221 - Magic square palindromes.
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* 637 - Booklet Printing
* 857 - Quantiser
* 10082 - WERTYU
* 10191 - Longest Nap
* 10528 - Major Scales
* 10554 - Calories from Fat
* 10812 - Beat the Spread!
* 11530 - SMS Typing
* 11945 - Financial Management
* 11984 - A Change in Thermal Unit
* 12195 - Jingle Composing
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Interesting Real Life Problems, Harder (more tedious)

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* 403 - Postscript
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* 448 - OOPS!
* 449 - Majoring in Scales
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* 10070 - Leap Year or Not Leap Year and …
* 10339 - Watching Watches
* 10371 - Time Zones
* 10683 - The decadary watch
* 11219 - How old are you?
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* 11958 - Coming Home
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* 394 - Mapmaker
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* 467 - Synching Signals
* 482 - Permutation Arrays
* 591 - Box of Bricks
* 665 - False coin
* 755 - 487-3279
* [10038 - Jolly Jumpers](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/10038-jolly-jumpers.html)
* [10050 - Hartals](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-10050-hartals.html)
* 10260 - Soundex
* 10978 - Let’s Play Magic!
* 11093 - Just Finish it up
* 11192 - Group Reverse
* 11222 - Only I did it!
* [11340 - Newspaper](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/11340-newspaper.html)
* 11496 - Musical Loop
* 11608 - No Problem
* 11850 - Alaska
* 12150 - Pole Position
* [12356 - Army Buddies](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-12356-army-buddies.html)

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* [101 - The Blocks Problem](http://www.ferociouscoder.com/blog/archives/programming/uva-online-judge/uva-101-the-blocks-problem.html)
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* 466 - Mirror, Mirror
* 541 - Error Correction
* 10016 - Flip-Flop the Squarelotron
* 10703 - Free spots
* [10855 - Rotated square](http://www.ferociouscoder.com/blog/archives/algorithms/uva-10855-rotated-square.html)
* 10920 - Spiral Tap
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* 11349 - Symmetric Matrix
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