

## [CF Elite Tracker](https://cfelitetracker.vercel.app)

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# Unique solved — aropan

Links: [problem \(problemset\)](#), [Tutorial](#), [submission \(first AC\)](#).

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Filters: none

Count: 870

1.  
1616A  
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Quality: 23,829 global accepts · Rating: 800 · first AC: 2021-12-29 · last AC: 2024-06-16 · C++17 (GCC 7-32) (first AC) · Tags: implementation  
[aropan's solution](#)
2.  
1769A  
[B47CmDò 4Cä@Cä3C](#)  
Quality: 2,156 global accepts · Rating: 800 · first AC: 2022-12-17 · C++17 (GCC 7-32) (first AC) · Tags: \*special, math  
[aropan's solution](#)
3.  
1637A  
[Sorting Parts](#) · [Tutorial](#)  
Quality: 24,135 global accepts · Rating: 800 · first AC: 2022-02-12 · C++17 (GCC 7-32) (first AC) · Tags: brute force, sortings  
[aropan's solution](#)
4.  
1586A  
[Windblume Ode](#) · [Tutorial](#)  
Rating: 800 · first AC: 2021-10-17 · C++17 (GCC 7-32) (first AC) · Tags: brute force, constructive algorithms, greedy, math, number theory  
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5.  
1556A  
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Quality: 18,543 global accepts · Rating: 800 · first AC: 2021-08-29 · C++17 (GCC 7-32) (first AC) · Tags: math  
[aropan's solution](#)
6.  
1544B  
[Putting Plates](#) · [Tutorial](#)  
Rating: 800 · first AC: 2021-07-17 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms  
[aropan's solution](#)
7.  
1544A  
[Binary Decimal](#) · [Tutorial](#)  
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8.  
1523A  
[Game of Life](#) · [Tutorial](#)  
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9.  
1515A  
[Phoenix and Gold](#) · [Tutorial](#)  
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10.  
1436A  
[Reorder](#) · [Tutorial](#)

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**11.**

1422A

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Quality: 21,867 global accepts · Rating: 800 · first AC: 2020-10-06 · C++17 (GCC 7-32) (first AC) · Tags: geometry, math

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**12.**

1408A

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Quality: 12,786 global accepts · Rating: 800 · first AC: 2020-09-30 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms

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**13.**

1389A

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Quality: 49,879 global accepts · Rating: 800 · first AC: 2020-07-29 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, greedy, math, number theory

[aropan's solution](#)

**14.**

1371A

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Quality: 51,261 global accepts · Rating: 800 · first AC: 2020-07-01 · C++17 (GCC 7-32) (first AC) · Tags: math

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**15.**

1369A

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Quality: 39,125 global accepts · Rating: 800 · first AC: 2020-06-23 · C++17 (GCC 7-32) (first AC) · Tags: geometry, math

[aropan's solution](#)

**16.**

1370A

[Maximum GCD](#) · [Tutorial](#)

Quality: 64,478 global accepts · Rating: 800 · first AC: 2020-06-20 · C++17 (GCC 7-32) (first AC) · Tags: greedy, implementation, math, number theory

[aropan's solution](#)

**17.**

1368A

[C+=](#) · [Tutorial](#)

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**18.**

1312A

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**19.**

1305A

[Kuroni and the Gifts](#) · [Tutorial](#)

Quality: 14,644 global accepts · Rating: 800 · first AC: 2020-03-03 · C++17 (GCC 7-32) (first AC) · Tags: brute force, constructive algorithms, greedy, sortings

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**20.**

1307A

[Cow and Haybales](#) · [Tutorial](#)

Quality: 15,627 global accepts · Rating: 800 · first AC: 2020-02-17 · C++17 (GCC 7-32) (first AC) · Tags: greedy, implementation

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**21.**

1054A

[Elevator or Stairs?](#) · [Tutorial](#)

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**22.**

1028A

[Find Square](#) · [Tutorial](#)

Quality: 11,522 global accepts · Rating: 800 · first AC: 2018-08-27 · C++17 (GCC 7-32) (first AC) · Tags: implementation  
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**23.**

932A

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Quality: 10,892 global accepts · Rating: 800 · first AC: 2018-02-15 · C++14 (GCC 6-32) (first AC) · Tags: constructive algorithms  
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**24.**

855A

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**25.**

859A

[Declined Finalists](#) · [Tutorial](#)

Quality: 8,619 global accepts · Rating: 800 · first AC: 2017-09-16 · C++14 (GCC 6-32) (first AC) · Tags: greedy, implementation  
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**26.**

755A

[PolandBall and Hypothesis](#) · [Tutorial](#)

Quality: 19,785 global accepts · Rating: 800 · first AC: 2017-01-15 · GNU C++11 (first AC) · Tags: brute force, graphs, math, number theory  
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**27.**

618A

[Slime Combining](#) · [Tutorial](#)

Quality: 8,806 global accepts · Rating: 800 · first AC: 2016-01-29 · GNU C++11 (first AC) · Tags: implementation  
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**28.**

513A

[Game](#) · [Tutorial](#)

Quality: 21,849 global accepts · Rating: 800 · first AC: 2015-02-07 · GNU C++ (first AC) · Tags: constructive algorithms, math  
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**29.**

386A

[Second-Price Auction](#) · [Tutorial](#)

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**30.**

291A

[Spyke Talks](#) · [Tutorial](#)

Quality: 6,477 global accepts · Rating: 800 · first AC: 2013-04-14 · GNU C++ (first AC) · Tags: \*special, implementation, sortings  
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**31.**

200B

[Drinks](#) · [Tutorial](#)

Quality: 148,426 global accepts · Rating: 800 · first AC: 2012-06-29 · Python 2 (first AC) · Tags: implementation, math  
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**32.**

172A

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Quality: 7,517 global accepts · Rating: 800 · first AC: 2012-04-03 · GNU C++ (first AC) · Tags: \*special, brute force, implementation  
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**33.**

158A

[Next Round](#) · [Tutorial](#)

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**34.**

144A

[Arrival of the General](#) · [Tutorial](#)

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**35.**

141A

[Amusing Joke](#) · [Tutorial](#)

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**36.**

78A

[Haiku](#) · [Tutorial](#)

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**37.**

71A

[Way Too Long Words](#) · [Tutorial](#)

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**38.**

61A

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**39.**

49A

[Sleuth](#) · [Tutorial](#)

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**40.**

38A

[Army](#) · [Tutorial](#)

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**41.**

34A

[Reconnaissance 2](#) · [Tutorial](#)

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**42.**

1609A

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**43.**

1610A

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**44.**

1427A

[Avoiding Zero](#) · [Tutorial](#)

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**45.**

1326B

[Maximums](#) · [Tutorial](#)

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**46.**

914A

[Perfect Squares](#) · [Tutorial](#)

Quality: 15,721 global accepts · Rating: 900 · first AC: 2018-01-20 · C++14 (GCC 6-32) (first AC) · Tags: brute force, implementation, math  
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**47.**

611A

[New Year and Days](#) · [Tutorial](#)

Quality: 12,180 global accepts · Rating: 900 · first AC: 2015-12-30 · GNU C++11 (first AC) · Tags: implementation  
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**48.**

549A

[Face Detection](#) · [Tutorial](#)

Quality: 10,156 global accepts · Rating: 900 · first AC: 2015-06-06 · GNU C++11 (first AC) · Tags: implementation, strings  
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**49.**

387A

[George and Sleep](#) · [Tutorial](#)

Quality: 10,543 global accepts · Rating: 900 · first AC: 2014-01-30 · Python 2 (first AC) · Tags: implementation  
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**50.**

208A

[Dubstep](#) · [Tutorial](#)

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**51.**

194A

[Exams](#) · [Tutorial](#)

Quality: 10,915 global accepts · Rating: 900 · first AC: 2012-06-03 · Python 2 (first AC) · Tags: implementation, math  
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**52.**

137A

[Postcards and photos](#) · [Tutorial](#)

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**53.**

130A

[Hexagonal numbers](#) · [Tutorial](#)

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**54.**

115A

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**55.**

63A

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**56.**

45A

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**57.**

44A

[Indian Summer](#) · [Tutorial](#)

Quality: 17,492 global accepts · Rating: 900 · first AC: 2010-11-06 · GNU C++ (first AC) · Tags: implementation  
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**58.**

34B

[Sale](#) · [Tutorial](#)

Quality: 66,028 global accepts · Rating: 900 · first AC: 2010-10-11 · GNU C++ (first AC) · Tags: greedy, sortings  
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**59.**

26A

[Almost Prime](#) · [Tutorial](#)

Quality: 42,769 global accepts · Rating: 900 · first AC: 2010-08-18 · GNU C++ (first AC) · Tags: number theory  
[aropan's solution](#)

**60.**

1769B1

[A = TO&D >C\\$0CÔ8CR DC 9C`>C" •](#)

Quality: 1,602 global accepts · Rating: 1000 · first AC: 2022-12-17 · C++17 (GCC 7-32) (first AC) · Tags: \*special, brute force, implementation, math  
[aropan's solution](#)

**61.**

1515B

[Phoenix and Puzzle](#) · [Tutorial](#)

Quality: 27,068 global accepts · Rating: 1000 · first AC: 2021-05-02 · C++17 (GCC 7-32) (first AC) · Tags: brute force, geometry, math, number theory  
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**62.**

1326A

[Bad Ugly Numbers](#) · [Tutorial](#)

Quality: 32,680 global accepts · Rating: 1000 · first AC: 2020-03-19 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, number theory  
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**63.**

1312B

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Quality: 39,055 global accepts · Rating: 1000 · first AC: 2020-03-10 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, sortings  
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**64.**

1054B

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**65.**

859B

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**66.**

766B

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**67.**

766A

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**68.**

626A

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**69.**

452A

[Eevee](#) · [Tutorial](#)

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**70.**

379A

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Quality: 53,269 global accepts · Rating: 1000 · first AC: 2014-01-01 · Python 2 (first AC) · Tags: implementation

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**71.**

237A

[Free Cash](#) · [Tutorial](#)

Quality: 29,524 global accepts · Rating: 1000 · first AC: 2012-10-25 · GNU C++ (first AC) · Tags: implementation

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**72.**

114A

[Cifera](#) · [Tutorial](#)

Quality: 15,080 global accepts · Rating: 1000 · first AC: 2012-10-20 · FPC (first AC) · Tags: math

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**73.**

195A

[Let's Watch Football](#) · [Tutorial](#)

Quality: 10,131 global accepts · Rating: 1000 · first AC: 2012-06-12 · Python 2 (first AC) · Tags: binary search, brute force, math

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**74.**

178A2

[Educational Game](#) · [Tutorial](#)

Quality: 1,857 global accepts · Rating: 1000 · first AC: 2012-04-28 · Python 2 (first AC) · Tags: greedy

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**75.**

178A1

[Educational Game](#) · [Tutorial](#)

Quality: 1,835 global accepts · Rating: 1000 · first AC: 2012-04-28 · Python 2 (first AC) · Tags: —

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**76.**

182B

[Vasya's Calendar](#) · [Tutorial](#)

Quality: 7,365 global accepts · Rating: 1000 · first AC: 2012-04-24 · Python 2 (first AC) · Tags: implementation

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**77.**

137B

[Permutation](#) · [Tutorial](#)

Quality: 15,040 global accepts · Rating: 1000 · first AC: 2011-12-23 · GNU C++ (first AC) · Tags: greedy

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**78.**

124A

[The number of positions](#) · [Tutorial](#)

Quality: 44,210 global accepts · Rating: 1000 · first AC: 2011-11-05 · GNU C++ (first AC) · Tags: math

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**79.**

120A

[Elevator](#) · [Tutorial](#)

Quality: 5,666 global accepts · Rating: 1000 · first AC: 2011-10-18 · GNU C++ (first AC) · Tags: brute force, implementation, math

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**80.**

109A

[Lucky Sum of Digits](#) · [Tutorial](#)

Quality: 19,822 global accepts · Rating: 1000 · first AC: 2011-08-30 · GNU C++ (first AC) · Tags: brute force, implementation

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**81.**

106B

[Choosing Laptop](#) · [Tutorial](#)

Quality: 6,867 global accepts · Rating: 1000 · first AC: 2011-08-19 · GNU C++ (first AC) · Tags: brute force, implementation

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**82.**

106A

[Card Game](#) · [Tutorial](#)

Quality: 8,536 global accepts · Rating: 1000 · first AC: 2011-08-19 · GNU C++ (first AC) · Tags: implementation

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**83.**

74A

[Room Leader](#) · [Tutorial](#)

Quality: 5,871 global accepts · Rating: 1000 · first AC: 2011-04-15 · GNU C++ (first AC) · Tags: implementation

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**84.**

5A

[Chat Servers Outgoing Traffic](#) · [Tutorial](#)

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**85.**

3A

[Shortest path of the king](#) · [Tutorial](#)

Quality: 22,147 global accepts · Rating: 1000 · first AC: 2010-03-07 · GNU C++ (first AC) · Tags: greedy, shortest paths

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**86.**

1637B

[MEX and Array](#) · [Tutorial](#)

Quality: 15,458 global accepts · Rating: 1100 · first AC: 2022-02-12 · C++17 (GCC 7-32) (first AC) · Tags: brute force, dp, greedy, math

[aropan's solution](#)

**87.**

1616B

[Mirror in the String](#) · [Tutorial](#)

Quality: 20,710 global accepts · Rating: 1100 · first AC: 2021-12-29 · C++17 (GCC 7-32) (first AC) · Tags: greedy, strings

[aropan's solution](#)

**88.**

1609B

[William the Vigilant](#) · [Tutorial](#)

Quality: 12,147 global accepts · Rating: 1100 · first AC: 2021-11-28 · C++17 (GCC 7-32) (first AC) · Tags: implementation, strings

[aropan's solution](#)

**89.**

1610B

[Kalindrome Array](#) · [Tutorial](#)

Quality: 23,387 global accepts · Rating: 1100 · first AC: 2021-11-23 · C++17 (GCC 7-32) (first AC) · Tags: greedy, two pointers

[aropan's solution](#)

**90.**

1523B

[Lord of the Values](#) · [Tutorial](#)

Quality: 12,509 global accepts · Rating: 1100 · first AC: 2021-05-30 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms

[aropan's solution](#)

**91.**

1375A

[Sign Flipping](#) · [Tutorial](#)

Quality: 18,842 global accepts · Rating: 1100 · first AC: 2020-07-04 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, math

[aropan's solution](#)

**92.**

1370B

[GCD Compression](#) · [Tutorial](#)

Quality: 25,016 global accepts · Rating: 1100 · first AC: 2020-06-20 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, math, number theory

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**93.**

1366A

[Shovels and Swords](#) · [Tutorial](#)

Quality: 32,999 global accepts · Rating: 1100 · first AC: 2020-06-11 · C++17 (GCC 7-32) (first AC) · Tags: binary search, greedy, math

[aropan's solution](#)

**94.**

755B

[PolandBall and Game](#) · [Tutorial](#)

Quality: 12,880 global accepts · Rating: 1100 · first AC: 2017-01-15 · GNU C++11 (first AC) · Tags: binary search, data structures, games, greedy, sortings, strings

[aropan's solution](#)

**95.**

618B

[Guess the Permutation](#) · [Tutorial](#)

Quality: 8,324 global accepts · Rating: 1100 · first AC: 2016-01-29 · GNU C++11 (first AC) · Tags: constructive algorithms

[aropan's solution](#)

**96.**

475A

[Bayan Bus](#) · [Tutorial](#)

Quality: 4,931 global accepts · Rating: 1100 · first AC: 2014-10-05 · Python 2 (first AC) · Tags: implementation

[aropan's solution](#)

**97.**

292A

[SMSC](#) · [Tutorial](#)

Quality: 2,864 global accepts · Rating: 1100 · first AC: 2013-04-15 · GNU C++ (first AC) · Tags: implementation  
[aropan's solution](#)

**98.**

196A

[Lexicographically Maximum Subsequence](#) · [Tutorial](#)

Quality: 5,844 global accepts · Rating: 1100 · first AC: 2012-06-12 · GNU C++ (first AC) · Tags: greedy, strings  
[aropan's solution](#)

**99.**

192B

[Walking in the Rain](#) · [Tutorial](#)

Quality: 6,799 global accepts · Rating: 1100 · first AC: 2012-06-03 · Python 2 (first AC) · Tags: brute force, implementation  
[aropan's solution](#)

**100.**

178A3

[Educational Game](#) · [Tutorial](#)

Quality: 1,609 global accepts · Rating: 1100 · first AC: 2012-04-28 · Python 2 (first AC) · Tags: greedy  
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**101.**

158B

[Taxi](#) · [Tutorial](#)

Quality: 103,834 global accepts · Rating: 1100 · first AC: 2012-03-03 · GNU C++ (first AC) · Tags: \*special, greedy, implementation  
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**102.**

121A

[Lucky Sum](#) · [Tutorial](#)

Quality: 10,550 global accepts · Rating: 1100 · first AC: 2011-10-27 · GNU C++ (first AC) · Tags: implementation  
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**103.**

120C

[Winnie-the-Pooh and honey](#) · [Tutorial](#)

Quality: 3,947 global accepts · Rating: 1100 · first AC: 2011-10-18 · GNU C++ (first AC) · Tags: implementation, math  
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**104.**

120B

[Quiz League](#) · [Tutorial](#)

Quality: 3,668 global accepts · Rating: 1100 · first AC: 2011-10-18 · GNU C++ (first AC) · Tags: implementation  
[aropan's solution](#)

**105.**

82A

[Double Cola](#) · [Tutorial](#)

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**106.**

68A

[Irrational problem](#) · [Tutorial](#)

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**107.**

39D

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Quality: 4,665 global accepts · Rating: 1100 · first AC: 2010-10-24 · GNU C++ (first AC) · Tags: math  
[aropan's solution](#)

**108.**

25B

[Phone numbers](#) · [Tutorial](#)

Quality: 11,255 global accepts · Rating: 1100 · first AC: 2010-08-02 · GNU C++ (first AC) · Tags: implementation

[aropan's solution](#)

**109.**

1769C1

[A65001d CD\\$:C](#) •

Quality: 1,118 global accepts · Rating: 1200 · first AC: 2022-12-17 · C++17 (GCC 7-32) (first AC) · Tags: \*special, brute force, dp, greedy

[aropan's solution](#)

**110.**

1637C

[Andrew and Stones](#) · [Tutorial](#)

Quality: 18,744 global accepts · Rating: 1200 · first AC: 2022-02-12 · C++17 (GCC 7-32) (first AC) · Tags: greedy, implementation

[aropan's solution](#)

**111.**

1586B

[Omkar and Heavenly Tree](#) · [Tutorial](#)

Rating: 1200 · first AC: 2021-10-17 · C++17 (GCC 7-32) (first AC) · Tags: brute force, constructive algorithms, trees

[aropan's solution](#)

**112.**

1544C

[Pursuit](#) · [Tutorial](#)

Rating: 1200 · first AC: 2021-07-17 · C++17 (GCC 7-32) (first AC) · Tags: binary search, sortings

[aropan's solution](#)

**113.**

1375B

[Neighbor Grid](#) · [Tutorial](#)

Quality: 17,850 global accepts · Rating: 1200 · first AC: 2020-07-04 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, greedy

[aropan's solution](#)

**114.**

1371B

[Magical Calendar](#) · [Tutorial](#)

Quality: 19,609 global accepts · Rating: 1200 · first AC: 2020-07-01 · C++17 (GCC 7-32) (first AC) · Tags: math

[aropan's solution](#)

**115.**

1369B

[AccurateLee](#) · [Tutorial](#)

Quality: 25,571 global accepts · Rating: 1200 · first AC: 2020-06-23 · C++17 (GCC 7-32) (first AC) · Tags: greedy, implementation, strings

[aropan's solution](#)

**116.**

1364A

[XXXXX](#) · [Tutorial](#)

Quality: 31,362 global accepts · Rating: 1200 · first AC: 2020-06-13 · C++17 (GCC 7-32) (first AC) · Tags: brute force, data structures, number theory, two pointers

[aropan's solution](#)

**117.**

1363A

[Odd Selection](#) · [Tutorial](#)

Quality: 40,395 global accepts · Rating: 1200 · first AC: 2020-05-31 · C++17 (GCC 7-32) (first AC) · Tags: brute force, implementation, math

[aropan's solution](#)

**118.**

1305B

[Kuroni and Simple Strings](#) · [Tutorial](#)

Quality: 12,442 global accepts · Rating: 1200 · first AC: 2020-03-03 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, greedy, strings, two pointers

[aropan's solution](#)

**119.**

1028B

[Unnatural Conditions](#) · [Tutorial](#)

Quality: 10,242 global accepts · Rating: 1200 · first AC: 2018-08-27 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, math  
[aropan's solution](#)

**120.**

914B

[Conan and Agasa play a Card Game](#) · [Tutorial](#)

Quality: 9,065 global accepts · Rating: 1200 · first AC: 2018-01-20 · C++14 (GCC 6-32) (first AC) · Tags: games, greedy, implementation  
[aropan's solution](#)

**121.**

655B

[Mischievous Mess Makers](#) · [Tutorial](#)

Rating: 1200 · first AC: 2016-03-18 · GNU C++11 (first AC) · Tags: greedy, math  
[aropan's solution](#)

**122.**

655A

[Amity Assessment](#) · [Tutorial](#)

Rating: 1200 · first AC: 2016-03-18 · GNU C++11 (first AC) · Tags: brute force, implementation  
[aropan's solution](#)

**123.**

482A

[Diverse Permutation](#) · [Tutorial](#)

Quality: 10,258 global accepts · Rating: 1200 · first AC: 2014-10-24 · GNU C++ (first AC) · Tags: constructive algorithms, greedy  
[aropan's solution](#)

**124.**

461A

[Appleman and Toastman](#) · [Tutorial](#)

Quality: 16,433 global accepts · Rating: 1200 · first AC: 2014-08-26 · GNU C++ (first AC) · Tags: greedy, sortings  
[aropan's solution](#)

**125.**

387B

[George and Round](#) · [Tutorial](#)

Quality: 12,970 global accepts · Rating: 1200 · first AC: 2014-01-30 · Python 2 (first AC) · Tags: brute force, greedy, two pointers  
[aropan's solution](#)

**126.**

379B

[New Year Present](#) · [Tutorial](#)

Quality: 7,613 global accepts · Rating: 1200 · first AC: 2014-01-01 · Python 2 (first AC) · Tags: constructive algorithms, implementation  
[aropan's solution](#)

**127.**

292B

[Network Topology](#) · [Tutorial](#)

Quality: 10,513 global accepts · Rating: 1200 · first AC: 2013-04-15 · GNU C++ (first AC) · Tags: graphs, implementation  
[aropan's solution](#)

**128.**

264A

[Escape from Stones](#) · [Tutorial](#)

Quality: 11,816 global accepts · Rating: 1200 · first AC: 2013-01-20 · GNU C++ (first AC) · Tags: constructive algorithms, data structures, implementation, two pointers  
[aropan's solution](#)

**129.**

217A

[Ice Skating](#) · [Tutorial](#)

Quality: 24,343 global accepts · Rating: 1200 · first AC: 2012-08-18 · GNU C++ (first AC) · Tags: brute force, dfs and similar, dsu, graphs  
[aropan's solution](#)

**130.**

208D

[Prizes, Prizes, more Prizes](#) · [Tutorial](#)

Quality: 8,049 global accepts · Rating: 1200 · first AC: 2012-07-23 · Python 2 (first AC) · Tags: implementation

[aropan's solution](#)

**131.**

203A

[Two Problems](#) · [Tutorial](#)

Quality: 4,424 global accepts · Rating: 1200 · first AC: 2012-07-03 · Python 2 (first AC) · Tags: brute force, implementation

[aropan's solution](#)

**132.**

194B

[Square](#) · [Tutorial](#)

Quality: 3,988 global accepts · Rating: 1200 · first AC: 2012-06-03 · Python 2 (first AC) · Tags: math

[aropan's solution](#)

**133.**

180F

[Mathematical Analysis Rocks!](#) · [Tutorial](#)

Quality: 2,840 global accepts · Rating: 1200 · first AC: 2012-04-22 · Python 2 (first AC) · Tags: constructive algorithms, implementation, math

[aropan's solution](#)

**134.**

176A

[Trading Business](#) · [Tutorial](#)

Quality: 1,806 global accepts · Rating: 1200 · first AC: 2012-04-20 · GNU C++ (first AC) · Tags: greedy, sortings

[aropan's solution](#)

**135.**

172B

[Pseudorandom Sequence Period](#) · [Tutorial](#)

Quality: 3,155 global accepts · Rating: 1200 · first AC: 2012-04-03 · GNU C++ (first AC) · Tags: \*special, implementation, number theory

[aropan's solution](#)

**136.**

171A

[Mysterious numbers - 1](#) · [Tutorial](#)

Quality: 5,067 global accepts · Rating: 1200 · first AC: 2012-04-01 · GNU C++ (first AC) · Tags: \*special, constructive algorithms

[aropan's solution](#)

**137.**

101A

[Homework](#) · [Tutorial](#)

Quality: 4,369 global accepts · Rating: 1200 · first AC: 2011-08-15 · GNU C++ (first AC) · Tags: greedy

[aropan's solution](#)

**138.**

79A

[Bus Game](#) · [Tutorial](#)

Quality: 4,556 global accepts · Rating: 1200 · first AC: 2011-04-30 · GNU C++ (first AC) · Tags: greedy

[aropan's solution](#)

**139.**

78B

[Easter Eggs](#) · [Tutorial](#)

Quality: 15,348 global accepts · Rating: 1200 · first AC: 2011-04-27 · GNU C++ (first AC) · Tags: constructive algorithms, implementation

[aropan's solution](#)

**140.**

38B

[Chess](#) · [Tutorial](#)

Quality: 4,032 global accepts · Rating: 1200 · first AC: 2010-10-30 · GNU C++ (first AC) · Tags: brute force, implementation, math

[aropan's solution](#)

**141.**

23A

[You're Given a String...](#) · [Tutorial](#)

Quality: 6,303 global accepts · Rating: 1200 · first AC: 2010-07-09 · GNU C++ (first AC) · Tags: brute force, greedy

[aropan's solution](#)

**142.**

8A

[Train and Peter](#) · [Tutorial](#)

Quality: 6,727 global accepts · Rating: 1200 · first AC: 2010-04-08 · GNU C++ (first AC) · Tags: strings

[aropan's solution](#)

**143.**

5B

[Center Alignment](#) · [Tutorial](#)

Quality: 6,763 global accepts · Rating: 1200 · first AC: 2010-03-20 · GNU C++ (first AC) · Tags: implementation, strings

[aropan's solution](#)

**144.**

1769C2

[A6>00:0 CD\\$:C ”•](#)

Quality: 1,077 global accepts · Rating: 1300 · first AC: 2022-12-17 · C++17 (GCC 7-32) (first AC) · Tags: \*special, dp

[aropan's solution](#)

**145.**

1556B

[Take Your Places!](#) · [Tutorial](#)

Quality: 13,276 global accepts · Rating: 1300 · first AC: 2021-08-29 · C++17 (GCC 7-32) (first AC) · Tags: implementation

[aropan's solution](#)

**146.**

1558A

[Charmed by the Game](#) · [Tutorial](#)

Quality: 11,495 global accepts · Rating: 1300 · first AC: 2021-08-24 · C++17 (GCC 7-32) (first AC) · Tags: brute force, math

[aropan's solution](#)

**147.**

1470A

[Strange Birthday Party](#) · [Tutorial](#)

Quality: 29,392 global accepts · Rating: 1300 · first AC: 2021-01-05 · C++17 (GCC 7-32) (first AC) · Tags: binary search, dp, greedy, sortings, two pointers

[aropan's solution](#)

**148.**

1446A

[Knapsack](#) · [Tutorial](#)

Quality: 17,723 global accepts · Rating: 1300 · first AC: 2020-11-15 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, greedy, sortings

[aropan's solution](#)

**149.**

1422B

[Nice Matrix](#) · [Tutorial](#)

Quality: 15,071 global accepts · Rating: 1300 · first AC: 2020-10-09 · C++17 (GCC 7-32) (first AC) · Tags: greedy, implementation, math

[aropan's solution](#)

**150.**

1381A1

[Prefix Flip \(Easy Version\)](#) · [Tutorial](#)

Quality: 21,724 global accepts · Rating: 1300 · first AC: 2020-07-21 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, data structures, strings

[aropan's solution](#)

**151.**

1371C

[A Cookie for You](#) · [Tutorial](#)

Quality: 21,370 global accepts · Rating: 1300 · first AC: 2020-07-01 · C++17 (GCC 7-32) (first AC) · Tags: greedy, implementation, math

[aropan's solution](#)

**152.**

1364B

[Most socially-distanced subsequence](#) · [Tutorial](#)

Quality: 26,183 global accepts · Rating: 1300 · first AC: 2020-06-13 · C++17 (GCC 7-32) (first AC) · Tags: greedy, two pointers  
[aropan's solution](#)

**153.**

1366B

[Shuffle](#) · [Tutorial](#)

Quality: 27,960 global accepts · Rating: 1300 · first AC: 2020-06-11 · C++17 (GCC 7-32) (first AC) · Tags: math, two pointers  
[aropan's solution](#)

**154.**

1326C

[Permutation Partitions](#) · [Tutorial](#)

Quality: 16,401 global accepts · Rating: 1300 · first AC: 2020-03-19 · C++17 (GCC 7-32) (first AC) · Tags: combinatorics, greedy, math  
[aropan's solution](#)

**155.**

1307B

[Cow and Friend](#) · [Tutorial](#)

Quality: 13,856 global accepts · Rating: 1300 · first AC: 2020-02-17 · C++17 (GCC 7-32) (first AC) · Tags: geometry, greedy, math  
[aropan's solution](#)

**156.**

1063A

[Oh Those Palindromes](#) · [Tutorial](#)

Quality: 11,056 global accepts · Rating: 1300 · first AC: 2018-10-14 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, strings  
[aropan's solution](#)

**157.**

1037C

[Equalize](#) · [Tutorial](#)

Quality: 20,112 global accepts · Rating: 1300 · first AC: 2018-09-02 · C++17 (GCC 7-32) (first AC) · Tags: dp, greedy, strings  
[aropan's solution](#)

**158.**

1037B

[Reach Median](#) · [Tutorial](#)

Quality: 10,878 global accepts · Rating: 1300 · first AC: 2018-09-02 · C++17 (GCC 7-32) (first AC) · Tags: greedy  
[aropan's solution](#)

**159.**

1037A

[Packets](#) · [Tutorial](#)

Quality: 11,831 global accepts · Rating: 1300 · first AC: 2018-09-02 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, greedy, math  
[aropan's solution](#)

**160.**

932B

[Recursive Queries](#) · [Tutorial](#)

Quality: 9,261 global accepts · Rating: 1300 · first AC: 2018-02-15 · C++14 (GCC 6-32) (first AC) · Tags: binary search, data structures, dfs and similar  
[aropan's solution](#)

**161.**

755C

[PolandBall and Forest](#) · [Tutorial](#)

Quality: 15,005 global accepts · Rating: 1300 · first AC: 2017-01-15 · GNU C++11 (first AC) · Tags: dfs and similar, dsu, graphs, interactive, trees  
[aropan's solution](#)

**162.**

626B

[Cards](#) · [Tutorial](#)

Quality: 6,922 global accepts · Rating: 1300 · first AC: 2016-02-13 · GNU C++11 (first AC) · Tags: constructive algorithms, dp, math

[aropan's solution](#)

**163.**

611B

[New Year and Old Property](#) · [Tutorial](#)

Quality: 11,066 global accepts · Rating: 1300 · first AC: 2015-12-30 · GNU C++11 (first AC) · Tags: bitmasks, brute force, implementation

[aropan's solution](#)

**164.**

526A

[King of Thieves](#) · [Tutorial](#)

Quality: 5,008 global accepts · Rating: 1300 · first AC: 2015-04-04 · GNU C++11 (first AC) · Tags: brute force, implementation

[aropan's solution](#)

**165.**

429A

[Xor-tree](#) · [Tutorial](#)

Quality: 12,266 global accepts · Rating: 1300 · first AC: 2014-05-11 · GNU C++ (first AC) · Tags: dfs and similar, trees

[aropan's solution](#)

**166.**

332A

[Down the Hatch!](#) · [Tutorial](#)

Quality: 3,724 global accepts · Rating: 1300 · first AC: 2013-07-24 · GNU C++ (first AC) · Tags: implementation

[aropan's solution](#)

**167.**

311A

[The Closest Pair](#) · [Tutorial](#)

Quality: 4,225 global accepts · Rating: 1300 · first AC: 2013-05-26 · GNU C++ (first AC) · Tags: constructive algorithms, implementation

[aropan's solution](#)

**168.**

303A

[Lucky Permutation Triple](#) · [Tutorial](#)

Quality: 8,571 global accepts · Rating: 1300 · first AC: 2013-05-12 · GNU C++ (first AC) · Tags: constructive algorithms, implementation, math

[aropan's solution](#)

**169.**

291B

[Command Line Arguments](#) · [Tutorial](#)

Quality: 3,087 global accepts · Rating: 1300 · first AC: 2013-04-14 · GNU C++ (first AC) · Tags: \*special, implementation, strings

[aropan's solution](#)

**170.**

251A

[Points on Line](#) · [Tutorial](#)

Quality: 21,345 global accepts · Rating: 1300 · first AC: 2012-12-06 · GNU C++ (first AC) · Tags: binary search, combinatorics, two pointers

[aropan's solution](#)

**171.**

241A

[Old Peykan](#) · [Tutorial](#)

Quality: 2,410 global accepts · Rating: 1300 · first AC: 2012-11-01 · GNU C++ (first AC) · Tags: greedy

[aropan's solution](#)

**172.**

220A

[Little Elephant and Problem](#) · [Tutorial](#)

Quality: 13,119 global accepts · Rating: 1300 · first AC: 2012-08-31 · GNU C++ (first AC) · Tags: implementation, sortings

[aropan's solution](#)

**173.**

203B

[Game on Paper](#) · [Tutorial](#)

Quality: 2,787 global accepts · Rating: 1300 · first AC: 2012-07-03 · last AC: 2012-07-03 · GNU C++ (first AC) · Tags: brute force, implementation

[aropan's solution](#)

**174.**

195B

[After Training](#) · [Tutorial](#)

Quality: 5,512 global accepts · Rating: 1300 · first AC: 2012-06-12 · Python 2 (first AC) · Tags: data structures, implementation, math

[aropan's solution](#)

**175.**

192A

[Funky Numbers](#) · [Tutorial](#)

Quality: 11,565 global accepts · Rating: 1300 · first AC: 2012-06-03 · Python 2 (first AC) · Tags: binary search, brute force, implementation

[aropan's solution](#)

**176.**

173A

[Rock-Paper-Scissors](#) · [Tutorial](#)

Quality: 2,516 global accepts · Rating: 1300 · first AC: 2012-04-06 · GNU C++ (first AC) · Tags: implementation, math

[aropan's solution](#)

**177.**

171D

[Broken checker](#) · [Tutorial](#)

Quality: 2,815 global accepts · Rating: 1300 · first AC: 2012-04-01 · GNU C++ (first AC) · Tags: \*special, brute force

[aropan's solution](#)

**178.**

171B

[Star](#) · [Tutorial](#)

Quality: 4,758 global accepts · Rating: 1300 · first AC: 2012-04-01 · GNU C++ (first AC) · Tags: \*special, combinatorics

[aropan's solution](#)

**179.**

161A

[Dress'em in Vests!](#) · [Tutorial](#)

Quality: 5,475 global accepts · Rating: 1300 · first AC: 2012-03-11 · GNU C++ (first AC) · Tags: binary search, brute force, greedy, two pointers

[aropan's solution](#)

**180.**

158D

[Ice Sculptures](#) · [Tutorial](#)

Quality: 6,492 global accepts · Rating: 1300 · first AC: 2012-03-03 · GNU C++ (first AC) · Tags: \*special, brute force, number theory

[aropan's solution](#)

**181.**

144B

[Meeting](#) · [Tutorial](#)

Quality: 5,685 global accepts · Rating: 1300 · first AC: 2012-01-18 · GNU C++ (first AC) · Tags: implementation

[aropan's solution](#)

**182.**

147A

[Punctuation](#) · [Tutorial](#)

Quality: 4,235 global accepts · Rating: 1300 · first AC: 2012-01-04 · GNU C++ (first AC) · Tags: implementation, strings

[aropan's solution](#)

**183.**

135A

[Replacement](#) · [Tutorial](#)

Quality: 8,257 global accepts · Rating: 1300 · first AC: 2011-12-14 · last AC: 2011-12-14 · GNU C++ (first AC) · Tags: greedy, implementation, sortings

[aropan's solution](#)

**184.**

123A

[Prime Permutation](#) · [Tutorial](#)

Quality: 3,988 global accepts · Rating: 1300 · first AC: 2011-11-05 · GNU C++ (first AC) · Tags: implementation, number theory, strings

[aropan's solution](#)

**185.**

117A

[Elevator](#) · [Tutorial](#)

Quality: 2,226 global accepts · Rating: 1300 · first AC: 2011-09-23 · GNU C++ (first AC) · Tags: implementation, math

[aropan's solution](#)

**186.**

85A

[Domino](#) · [Tutorial](#)

Quality: 2,024 global accepts · Rating: 1300 · first AC: 2011-05-20 · GNU C++ (first AC) · Tags: constructive algorithms, implementation

[aropan's solution](#)

**187.**

83A

[Magical Array](#) · [Tutorial](#)

Quality: 6,858 global accepts · Rating: 1300 · first AC: 2011-05-13 · GNU C++ (first AC) · Tags: math

[aropan's solution](#)

**188.**

71B

[Progress Bar](#) · [Tutorial](#)

Quality: 5,274 global accepts · Rating: 1300 · first AC: 2011-04-01 · GNU C++ (first AC) · Tags: implementation, math

[aropan's solution](#)

**189.**

70A

[Cookies](#) · [Tutorial](#)

Quality: 3,560 global accepts · Rating: 1300 · first AC: 2011-03-26 · GNU C++ (first AC) · Tags: math

[aropan's solution](#)

**190.**

61B

[Hard Work](#) · [Tutorial](#)

Quality: 4,243 global accepts · Rating: 1300 · first AC: 2011-02-22 · GNU C++ (first AC) · Tags: strings

[aropan's solution](#)

**191.**

64A

[Factorial](#) · [Tutorial](#)

Quality: 4,247 global accepts · Rating: 1300 · first AC: 2011-02-21 · Tcl (first AC) · Tags: \*special, implementation

[aropan's solution](#)

**192.**

60A

[Where Are My Flakes?](#) · [Tutorial](#)

Quality: 4,283 global accepts · Rating: 1300 · first AC: 2011-02-19 · GNU C++ (first AC) · Tags: implementation, two pointers

[aropan's solution](#)

**193.**

44C

[Holidays](#) · [Tutorial](#)

Quality: 4,054 global accepts · Rating: 1300 · first AC: 2010-11-06 · GNU C++ (first AC) · Tags: implementation

[aropan's solution](#)

**194.**

40A

[Find Color](#) · [Tutorial](#)

Quality: 4,435 global accepts · Rating: 1300 · first AC: 2010-11-05 · GNU C++ (first AC) · Tags: constructive algorithms, geometry, implementation, math

[aropan's solution](#)

**195.**

39F

[Pacifist frogs](#) · [Tutorial](#)

Quality: 1,962 global accepts · Rating: 1300 · first AC: 2010-10-24 · GNU C++ (first AC) · Tags: implementation

[aropan's solution](#)

**196.**

39H

[Multiplication Table](#) · [Tutorial](#)

Quality: 3,126 global accepts · Rating: 1300 · first AC: 2010-10-24 · GNU C++ (first AC) · Tags: implementation

[aropan's solution](#)

**197.**

39B

[Company Income Growth](#) · [Tutorial](#)

Quality: 3,097 global accepts · Rating: 1300 · first AC: 2010-10-24 · GNU C++ (first AC) · Tags: greedy

[aropan's solution](#)

**198.**

34C

[Page Numbers](#) · [Tutorial](#)

Quality: 4,765 global accepts · Rating: 1300 · first AC: 2010-10-11 · GNU C++ (first AC) · Tags: expression parsing, implementation, sortings, strings

[aropan's solution](#)

**199.**

25A

[IQ test](#) · [Tutorial](#)

Quality: 103,879 global accepts · Rating: 1300 · first AC: 2010-08-02 · last AC: 2010-08-03 · GNU C++ (first AC) · Tags: brute force

[aropan's solution](#)

**200.**

1769B2

[Arithmetic](#) · [Tutorial](#)

Quality: 952 global accepts · Rating: 1400 · first AC: 2022-12-17 · C++17 (GCC 7-32) (first AC) · Tags: \*special, binary search, brute force, math

[aropan's solution](#)

**201.**

1609C

[Complex Market Analysis](#) · [Tutorial](#)

Quality: 10,459 global accepts · Rating: 1400 · first AC: 2021-11-28 · C++17 (GCC 7-32) (first AC) · Tags: binary search, dp, implementation, number theory, schedules, two pointers

[aropan's solution](#)

**202.**

1515C

[Phoenix and Towers](#) · [Tutorial](#)

Quality: 18,751 global accepts · Rating: 1400 · first AC: 2021-05-02 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, data structures, greedy

[aropan's solution](#)

**203.**

1427B

[Chess Cheater](#) · [Tutorial](#)

Quality: 11,458 global accepts · Rating: 1400 · first AC: 2020-10-10 · C++17 (GCC 7-32) (first AC) · Tags: greedy, implementation, sortings

[aropan's solution](#)

**204.**

1375C

[Element Extermination](#) · [Tutorial](#)

Quality: 22,950 global accepts · Rating: 1400 · first AC: 2020-07-04 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, data structures, greedy

[aropan's solution](#)

**205.**

1369C

[RationalLee](#) · [Tutorial](#)

Quality: 20,872 global accepts · Rating: 1400 · first AC: 2020-06-23 · C++17 (GCC 7-32) (first AC) · Tags: greedy, math, sortings, two pointers

[aropan's solution](#)

**206.**

1370C

[Number Game](#) · [Tutorial](#)

Quality: 27,143 global accepts · Rating: 1400 · first AC: 2020-06-20 · C++17 (GCC 7-32) (first AC) · Tags: games, math, number theory  
[aropan's solution](#)

**207.**

1363B

[Subsequence Hate](#) · [Tutorial](#)

Quality: 26,126 global accepts · Rating: 1400 · first AC: 2020-05-31 · C++17 (GCC 7-32) (first AC) · Tags: implementation, strings  
[aropan's solution](#)

**208.**

1103A

[Grid game](#) · [Tutorial](#)

Quality: 10,598 global accepts · Rating: 1400 · first AC: 2019-01-22 · C++14 (GCC 6-32) (first AC) · Tags: constructive algorithms, implementation  
[aropan's solution](#)

**209.**

866A

[Save the problem!](#) · [Tutorial](#)

Rating: 1400 · first AC: 2017-09-30 · C++14 (GCC 6-32) (first AC) · Tags: combinatorics, constructive algorithms, math  
[aropan's solution](#)

**210.**

757B

[Bash's Big Day](#) · [Tutorial](#)

Quality: 11,426 global accepts · Rating: 1400 · first AC: 2017-01-12 · GNU C++11 (first AC) · Tags: greedy, math, number theory  
[aropan's solution](#)

**211.**

538B

[Quasi Binary](#) · [Tutorial](#)

Quality: 19,335 global accepts · Rating: 1400 · first AC: 2015-04-26 · GNU C++ (first AC) · Tags: constructive algorithms, dp, greedy, implementation  
[aropan's solution](#)

**212.**

538A

[Cutting Banner](#) · [Tutorial](#)

Quality: 7,381 global accepts · Rating: 1400 · first AC: 2015-04-26 · Python 2 (first AC) · Tags: brute force, implementation  
[aropan's solution](#)

**213.**

526B

[Om Nom and Dark Park](#) · [Tutorial](#)

Quality: 4,712 global accepts · Rating: 1400 · first AC: 2015-04-04 · GNU C++11 (first AC) · Tags: dfs and similar, greedy, implementation  
[aropan's solution](#)

**214.**

516A

[Drazil and Factorial](#) · [Tutorial](#)

Rating: 1400 · first AC: 2015-02-17 · GNU C++0x (first AC) · Tags: dp, greedy, implementation, math  
[aropan's solution](#)

**215.**

513B1

[Permutations](#) · [Tutorial](#)

Quality: 3,833 global accepts · Rating: 1400 · first AC: 2015-02-07 · GNU C++ (first AC) · Tags: brute force  
[aropan's solution](#)

**216.**

475B

[Strongly Connected City](#) · [Tutorial](#)

Quality: 9,248 global accepts · Rating: 1400 · first AC: 2014-10-05 · GNU C++ (first AC) · Tags: brute force, dfs and similar, graphs,

implementation

[aropan's solution](#)

**217.**

388A

[Fox and Box Accumulation](#) · [Tutorial](#)

Quality: 11,939 global accepts · Rating: 1400 · first AC: 2014-02-03 · GNU C++ (first AC) · Tags: greedy, sortings

[aropan's solution](#)

**218.**

379C

[New Year Ratings Change](#) · [Tutorial](#)

Quality: 7,047 global accepts · Rating: 1400 · first AC: 2014-01-01 · last AC: 2014-01-01 · Python 2 (first AC) · Tags: greedy, sortings

[aropan's solution](#)

**219.**

277A

[Learning Languages](#) · [Tutorial](#)

Quality: 21,579 global accepts · Rating: 1400 · first AC: 2013-02-28 · GNU C++ (first AC) · Tags: dfs and similar, dsu

[aropan's solution](#)

**220.**

261A

[Maxim and Discounts](#) · [Tutorial](#)

Quality: 5,609 global accepts · Rating: 1400 · first AC: 2013-01-13 · GNU C++ (first AC) · Tags: greedy, sortings

[aropan's solution](#)

**221.**

226A

[Flying Saucer Segments](#) · [Tutorial](#)

Quality: 4,352 global accepts · Rating: 1400 · first AC: 2012-09-24 · GNU C++ (first AC) · Tags: math

[aropan's solution](#)

**222.**

203C

[Photographer](#) · [Tutorial](#)

Quality: 6,063 global accepts · Rating: 1400 · first AC: 2012-07-03 · Python 2 (first AC) · Tags: greedy, sortings

[aropan's solution](#)

**223.**

198B

[Jumping on Walls](#) · [Tutorial](#)

Quality: 5,172 global accepts · Rating: 1400 · first AC: 2012-06-22 · GNU C++ (first AC) · Tags: shortest paths

[aropan's solution](#)

**224.**

182D

[Common Divisors](#) · [Tutorial](#)

Quality: 9,243 global accepts · Rating: 1400 · first AC: 2012-04-24 · last AC: 2012-04-24 · Python 2 (first AC) · Tags: brute force, hashing, implementation, math, strings

[aropan's solution](#)

**225.**

180C

[Letter](#) · [Tutorial](#)

Quality: 8,561 global accepts · Rating: 1400 · first AC: 2012-04-22 · GNU C++ (first AC) · Tags: dp

[aropan's solution](#)

**226.**

158C

[Cd and pwd commands](#) · [Tutorial](#)

Quality: 10,392 global accepts · Rating: 1400 · first AC: 2012-03-03 · GNU C++ (first AC) · Tags: \*special, data structures, implementation

[aropan's solution](#)

**227.**

141B

[Hopscotch](#) · [Tutorial](#)

Quality: 5,789 global accepts · Rating: 1400 · first AC: 2012-01-08 · GNU C++ (first AC) · Tags: geometry, math

[aropan's solution](#)

**228.**

130B

[Gnikool Ssalg](#) · [Tutorial](#)

Quality: 563 global accepts · Rating: 1400 · first AC: 2011-11-20 · Befunge (first AC) · Tags: \*special, implementation, strings

[aropan's solution](#)

**229.**

124B

[Permutations](#) · [Tutorial](#)

Quality: 4,872 global accepts · Rating: 1400 · first AC: 2011-11-04 · last AC: 2011-11-05 · GNU C++ (first AC) · Tags: brute force, combinatorics, implementation

[aropan's solution](#)

**230.**

120F

[Spiders](#) · [Tutorial](#)

Quality: 4,129 global accepts · Rating: 1400 · first AC: 2011-10-18 · GNU C++ (first AC) · Tags: dp, greedy, trees

[aropan's solution](#)

**231.**

120E

[Put Knight!](#) · [Tutorial](#)

Quality: 2,963 global accepts · Rating: 1400 · first AC: 2011-10-18 · GNU C++ (first AC) · Tags: games, math

[aropan's solution](#)

**232.**

120D

[Three Sons](#) · [Tutorial](#)

Quality: 2,101 global accepts · Rating: 1400 · first AC: 2011-10-18 · GNU C++ (first AC) · Tags: brute force

[aropan's solution](#)

**233.**

111A

[Petya and Inequiations](#) · [Tutorial](#)

Quality: 5,171 global accepts · Rating: 1400 · first AC: 2011-09-03 · GNU C++ (first AC) · Tags: greedy

[aropan's solution](#)

**234.**

107A

[Dorm Water Supply](#) · [Tutorial](#)

Quality: 5,908 global accepts · Rating: 1400 · first AC: 2011-08-23 · GNU C++ (first AC) · Tags: dfs and similar, graphs

[aropan's solution](#)

**235.**

79B

[Colorful Field](#) · [Tutorial](#)

Quality: 7,991 global accepts · Rating: 1400 · first AC: 2011-04-30 · GNU C++ (first AC) · Tags: implementation, sortings

[aropan's solution](#)

**236.**

77A

[Heroes](#) · [Tutorial](#)

Quality: 1,953 global accepts · Rating: 1400 · first AC: 2011-04-19 · GNU C++ (first AC) · Tags: brute force, implementation

[aropan's solution](#)

**237.**

60B

[Serial Time!](#) · [Tutorial](#)

Quality: 5,312 global accepts · Rating: 1400 · first AC: 2011-02-19 · GNU C++ (first AC) · Tags: dfs and similar, dsu

[aropan's solution](#)

**238.**

45I

[TCMCF+++](#) · [Tutorial](#)

Quality: 2,803 global accepts · Rating: 1400 · first AC: 2010-11-13 · GNU C++ (first AC) · Tags: greedy

[aropan's solution](#)

**239.**

44E

[Anfisa the Monkey](#) · [Tutorial](#)

Quality: 6,117 global accepts · Rating: 1400 · first AC: 2010-11-06 · GNU C++ (first AC) · Tags: dp

[aropan's solution](#)

**240.**

38C

[Blinds](#) · [Tutorial](#)

Quality: 2,561 global accepts · Rating: 1400 · first AC: 2010-10-30 · GNU C++ (first AC) · Tags: brute force

[aropan's solution](#)

**241.**

30A

[Accounting](#) · [Tutorial](#)

Quality: 3,989 global accepts · Rating: 1400 · first AC: 2010-09-24 · GNU C++ (first AC) · Tags: brute force, math

[aropan's solution](#)

**242.**

26B

[Regular Bracket Sequence](#) · [Tutorial](#)

Quality: 25,856 global accepts · Rating: 1400 · first AC: 2010-08-18 · GNU C++ (first AC) · Tags: greedy

[aropan's solution](#)

**243.**

24A

[Ring road](#) · [Tutorial](#)

Quality: 6,866 global accepts · Rating: 1400 · first AC: 2010-07-26 · GNU C++ (first AC) · Tags: graphs

[aropan's solution](#)

**244.**

8B

[Obsession with Robots](#) · [Tutorial](#)

Quality: 4,965 global accepts · Rating: 1400 · first AC: 2010-04-08 · GNU C++ (first AC) · Tags: constructive algorithms, graphs, implementation

[aropan's solution](#)

**245.**

1616C

[Representative Edges](#) · [Tutorial](#)

Quality: 13,203 global accepts · Rating: 1500 · first AC: 2021-12-29 · C++17 (GCC 7-32) (first AC) · Tags: brute force, geometry, implementation, math

[aropan's solution](#)

**246.**

1515D

[Phoenix and Socks](#) · [Tutorial](#)

Quality: 12,822 global accepts · Rating: 1500 · first AC: 2021-05-02 · C++17 (GCC 7-32) (first AC) · Tags: greedy, sortings, two pointers

[aropan's solution](#)

**247.**

1408C

[Discrete Acceleration](#) · [Tutorial](#)

Quality: 9,274 global accepts · Rating: 1500 · first AC: 2020-09-30 · C++17 (GCC 7-32) (first AC) · Tags: binary search, dp, implementation, math, two pointers

[aropan's solution](#)

**248.**

908C

[New Year and Curling](#) · [Tutorial](#)

Quality: 7,203 global accepts · Rating: 1500 · first AC: 2020-09-02 · C++17 (GCC 7-32) (first AC) · Tags: brute force, geometry, implementation, math

[aropan's solution](#)

**249.**

1389C

[Good String](#) · [Tutorial](#)

Quality: 20,565 global accepts · Rating: 1500 · first AC: 2020-07-29 · C++17 (GCC 7-32) (first AC) · Tags: brute force, dp, greedy, two pointers  
[aropan's solution](#)

**250.**

1368C

[Even Picture](#) · [Tutorial](#)

Quality: 14,031 global accepts · Rating: 1500 · first AC: 2020-06-18 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms  
[aropan's solution](#)

**251.**

1368B

[Codeforces Subsequences](#) · [Tutorial](#)

Quality: 21,436 global accepts · Rating: 1500 · first AC: 2020-06-18 · C++17 (GCC 7-32) (first AC) · Tags: brute force, constructive algorithms, greedy, math, strings  
[aropan's solution](#)

**252.**

1366C

[Palindromic Paths](#) · [Tutorial](#)

Quality: 14,261 global accepts · Rating: 1500 · first AC: 2020-06-11 · C++17 (GCC 7-32) (first AC) · Tags: greedy, math  
[aropan's solution](#)

**253.**

1340A

[Nastya and Strange Generator](#) · [Tutorial](#)

Quality: 13,691 global accepts · Rating: 1500 · first AC: 2020-04-23 · C++17 (GCC 7-32) (first AC) · Tags: brute force, data structures, greedy, implementation  
[aropan's solution](#)

**254.**

1338A

[Powered Addition](#) · [Tutorial](#)

Quality: 30,345 global accepts · Rating: 1500 · first AC: 2020-04-12 · C++17 (GCC 7-32) (first AC) · Tags: greedy, math  
[aropan's solution](#)

**255.**

1326D1

[Prefix-Suffix Palindrome \(Easy version\)](#) · [Tutorial](#)

Quality: 13,295 global accepts · Rating: 1500 · first AC: 2020-03-19 · C++17 (GCC 7-32) (first AC) · Tags: hashing, string suffix structures, strings  
[aropan's solution](#)

**256.**

1307C

[Cow and Message](#) · [Tutorial](#)

Quality: 12,592 global accepts · Rating: 1500 · first AC: 2020-02-17 · C++17 (GCC 7-32) (first AC) · Tags: brute force, dp, math, strings  
[aropan's solution](#)

**257.**

1299A

[Anu Has a Function](#) · [Tutorial](#)

Quality: 12,551 global accepts · Rating: 1500 · first AC: 2020-02-09 · C++17 (GCC 7-32) (first AC) · Tags: brute force, greedy, math  
[aropan's solution](#)

**258.**

1161A

[Hide and Seek](#) · [Tutorial](#)

Rating: 1500 · first AC: 2019-05-04 · C++17 (GCC 7-32) (first AC) · Tags: brute force, data structures, graphs  
[aropan's solution](#)

**259.**

1054C

[Candies Distribution](#) · [Tutorial](#)

Quality: 4,489 global accepts · Rating: 1500 · first AC: 2018-10-18 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, implementation

[aropan's solution](#)

**260.**

855B

[Marvolo Gaunt's Ring](#) · [Tutorial](#)

Quality: 9,946 global accepts · Rating: 1500 · first AC: 2017-09-24 · C++14 (GCC 6-32) (first AC) · Tags: brute force, data structures, dp

[aropan's solution](#)

**261.**

860A

[Did you mean...](#) · [Tutorial](#)

Rating: 1500 · first AC: 2017-09-17 · C++14 (GCC 6-32) (first AC) · Tags: greedy, implementation

[aropan's solution](#)

**262.**

859C

[Pie Rules](#) · [Tutorial](#)

Quality: 6,076 global accepts · Rating: 1500 · first AC: 2017-09-16 · C++14 (GCC 6-32) (first AC) · Tags: dp, games

[aropan's solution](#)

**263.**

611C

[New Year and Domino](#) · [Tutorial](#)

Quality: 9,031 global accepts · Rating: 1500 · first AC: 2015-12-30 · GNU C++11 (first AC) · Tags: dp, implementation

[aropan's solution](#)

**264.**

494A

[Treasure](#) · [Tutorial](#)

Quality: 6,549 global accepts · Rating: 1500 · first AC: 2014-12-13 · GNU C++ (first AC) · Tags: greedy

[aropan's solution](#)

**265.**

468A

[24 Game](#) · [Tutorial](#)

Quality: 8,399 global accepts · Rating: 1500 · first AC: 2014-09-20 · GNU C++ (first AC) · Tags: constructive algorithms, greedy, math

[aropan's solution](#)

**266.**

403A

[Searching for Graph](#) · [Tutorial](#)

Rating: 1500 · first AC: 2014-03-16 · GNU C++ (first AC) · Tags: constructive algorithms, graphs

[aropan's solution](#)

**267.**

356A

[Knight Tournament](#) · [Tutorial](#)

Quality: 16,790 global accepts · Rating: 1500 · first AC: 2013-10-15 · GNU C++ (first AC) · Tags: data structures, dsu

[aropan's solution](#)

**268.**

354A

[Vasya and Robot](#) · [Tutorial](#)

Quality: 5,658 global accepts · Rating: 1500 · first AC: 2013-10-13 · GNU C++ (first AC) · Tags: brute force, greedy, math

[aropan's solution](#)

**269.**

345A

[Expecting Trouble](#) · [Tutorial](#)

Quality: 532 global accepts · Rating: 1500 · first AC: 2013-09-13 · Ada (first AC) · Tags: \*special, probabilities

[aropan's solution](#)

**270.**

341B

[Bubble Sort Graph](#) · [Tutorial](#)

Rating: 1500 · first AC: 2013-08-30 · GNU C++ (first AC) · Tags: binary search, data structures, dp

[aropan's solution](#)

**271.**

332B

[Maximum Absurdity](#) · [Tutorial](#)

Quality: 8,711 global accepts · Rating: 1500 · first AC: 2013-07-24 · Python 2 (first AC) · Tags: data structures, dp, implementation

[aropan's solution](#)

**272.**

325A

[Square and Rectangles](#) · [Tutorial](#)

Quality: 2,301 global accepts · Rating: 1500 · first AC: 2013-07-13 · GNU C++ (first AC) · Tags: implementation

[aropan's solution](#)

**273.**

293A

[Weird Game](#) · [Tutorial](#)

Quality: 3,197 global accepts · Rating: 1500 · first AC: 2013-04-22 · GNU C++ (first AC) · Tags: games, greedy

[aropan's solution](#)

**274.**

274A

[k-Multiple Free Set](#) · [Tutorial](#)

Quality: 10,813 global accepts · Rating: 1500 · first AC: 2013-02-20 · GNU C++ (first AC) · Tags: binary search, greedy, sortings

[aropan's solution](#)

**275.**

264B

[Good Sequences](#) · [Tutorial](#)

Quality: 12,022 global accepts · Rating: 1500 · first AC: 2013-01-20 · GNU C++ (first AC) · Tags: dp, number theory

[aropan's solution](#)

**276.**

237B

[Young Table](#) · [Tutorial](#)

Quality: 2,376 global accepts · Rating: 1500 · first AC: 2012-10-25 · GNU C++ (first AC) · Tags: implementation, sortings

[aropan's solution](#)

**277.**

229A

[Shifts](#) · [Tutorial](#)

Quality: 3,754 global accepts · Rating: 1500 · first AC: 2012-10-01 · GNU C++ (first AC) · Tags: brute force, two pointers

[aropan's solution](#)

**278.**

204A

[Little Elephant and Interval](#) · [Tutorial](#)

Quality: 6,590 global accepts · Rating: 1500 · first AC: 2012-07-11 · GNU C++ (first AC) · Tags: binary search, combinatorics, dp

[aropan's solution](#)

**279.**

204B

[Little Elephant and Cards](#) · [Tutorial](#)

Quality: 5,909 global accepts · Rating: 1500 · first AC: 2012-07-11 · GNU C++ (first AC) · Tags: binary search, data structures

[aropan's solution](#)

**280.**

191A

[Dynasty Puzzles](#) · [Tutorial](#)

Quality: 4,554 global accepts · Rating: 1500 · first AC: 2012-05-27 · GNU C++ (first AC) · Tags: dp

[aropan's solution](#)

**281.**

178D1

[Magic Squares](#) · [Tutorial](#)

Quality: 735 global accepts · Rating: 1500 · first AC: 2012-04-28 · GNU C++ (first AC) · Tags: —

[aropan's solution](#)

**282.**

172D

[Calendar Reform](#) · [Tutorial](#)

Quality: 1,518 global accepts · Rating: 1500 · first AC: 2012-04-04 · GNU C++ (first AC) · Tags: \*special, number theory

[aropan's solution](#)

**283.**

172C

[Bus](#) · [Tutorial](#)

Quality: 1,259 global accepts · Rating: 1500 · first AC: 2012-04-03 · GNU C++ (first AC) · Tags: \*special, implementation, sortings

[aropan's solution](#)

**284.**

144C

[Anagram Search](#) · [Tutorial](#)

Quality: 4,264 global accepts · Rating: 1500 · first AC: 2012-01-18 · GNU C++ (first AC) · Tags: implementation, strings

[aropan's solution](#)

**285.**

137C

[History](#) · [Tutorial](#)

Quality: 7,815 global accepts · Rating: 1500 · first AC: 2011-12-23 · GNU C++ (first AC) · Tags: sortings

[aropan's solution](#)

**286.**

130D

[Exponentiation](#) · [Tutorial](#)

Quality: 425 global accepts · Rating: 1500 · first AC: 2011-11-20 · Befunge (first AC) · Tags: \*special

[aropan's solution](#)

**287.**

130C

[Decimal sum](#) · [Tutorial](#)

Quality: 539 global accepts · Rating: 1500 · first AC: 2011-11-20 · Befunge (first AC) · Tags: \*special

[aropan's solution](#)

**288.**

128A

[Statues](#) · [Tutorial](#)

Quality: 3,510 global accepts · Rating: 1500 · first AC: 2011-11-15 · GNU C++ (first AC) · Tags: dfs and similar

[aropan's solution](#)

**289.**

121B

[Lucky Transformation](#) · [Tutorial](#)

Quality: 2,822 global accepts · Rating: 1500 · first AC: 2011-10-27 · GNU C++ (first AC) · Tags: strings

[aropan's solution](#)

**290.**

115B

[Lawnmower](#) · [Tutorial](#)

Quality: 2,841 global accepts · Rating: 1500 · first AC: 2011-09-15 · GNU C++ (first AC) · Tags: greedy, sortings

[aropan's solution](#)

**291.**

87A

[Trains](#) · [Tutorial](#)

Quality: 5,816 global accepts · Rating: 1500 · first AC: 2011-06-07 · GNU C++ (first AC) · Tags: implementation, math

[aropan's solution](#)

**292.**

74B

[Train](#) · [Tutorial](#)

Quality: 1,785 global accepts · Rating: 1500 · first AC: 2011-04-15 · GNU C++ (first AC) · Tags: dp, games, greedy

[aropan's solution](#)

**293.**

64B

[Expression](#) · [Tutorial](#)

Quality: 1,054 global accepts · Rating: 1500 · first AC: 2011-02-21 · Tcl (first AC) · Tags: \*special, expression parsing

[aropan's solution](#)

**294.**

49B

[Sum](#) · [Tutorial](#)

Quality: 2,802 global accepts · Rating: 1500 · first AC: 2010-12-17 · GNU C++ (first AC) · Tags: math

[aropan's solution](#)

**295.**

44B

[Cola](#) · [Tutorial](#)

Quality: 2,302 global accepts · Rating: 1500 · first AC: 2010-11-06 · GNU C++ (first AC) · Tags: implementation

[aropan's solution](#)

**296.**

39J

[Spelling Check](#) · [Tutorial](#)

Quality: 3,571 global accepts · Rating: 1500 · first AC: 2010-10-24 · GNU C++ (first AC) · Tags: hashing, implementation, strings

[aropan's solution](#)

**297.**

24B

[F1 Champions](#) · [Tutorial](#)

Quality: 2,036 global accepts · Rating: 1500 · first AC: 2010-07-26 · GNU C++ (first AC) · Tags: implementation

[aropan's solution](#)

**298.**

1609D

[Social Network](#) · [Tutorial](#)

Quality: 8,399 global accepts · Rating: 1600 · first AC: 2021-11-28 · C++17 (GCC 7-32) (first AC) · Tags: dsu, graphs, greedy, implementation, trees

[aropan's solution](#)

**299.**

1610C

[Keshi Is Throwing a Party](#) · [Tutorial](#)

Quality: 15,623 global accepts · Rating: 1600 · first AC: 2021-11-23 · C++17 (GCC 7-32) (first AC) · Tags: binary search, greedy

[aropan's solution](#)

**300.**

1544D

[Secret Santa](#) · [Tutorial](#)

Rating: 1600 · first AC: 2021-07-17 · C++17 (GCC 7-32) (first AC) · Tags: graphs, greedy, math

[aropan's solution](#)

**301.**

1523C

[Compression and Expansion](#) · [Tutorial](#)

Quality: 9,181 global accepts · Rating: 1600 · first AC: 2021-05-30 · C++17 (GCC 7-32) (first AC) · Tags: brute force, data structures, greedy, implementation, trees

[aropan's solution](#)

**302.**

1483A

[Basic Diplomacy](#) · [Tutorial](#)

Rating: 1600 · first AC: 2021-03-21 · C++17 (GCC 9-64) (first AC) · Tags: constructive algorithms, greedy, implementation

[aropan's solution](#)

**303.**

523D

[Statistics of Recompressing Videos](#) · [Tutorial](#)

Quality: 2,559 global accepts · Rating: 1600 · first AC: 2020-09-02 · C++17 (GCC 7-32) (first AC) · Tags: \*special, data structures, implementation

[aropan's solution](#)

**304.**

1163B2

[Cat Party \(Hard Edition\) · Tutorial](#)

Quality: 7,647 global accepts · Rating: 1600 · first AC: 2020-08-28 · C++17 (GCC 7-32) (first AC) · Tags: data structures, implementation

[aropan's solution](#)

**305.**

1389B

[Array Walk · Tutorial](#)

Quality: 20,350 global accepts · Rating: 1600 · first AC: 2020-07-29 · C++17 (GCC 7-32) (first AC) · Tags: brute force, dp, greedy

[aropan's solution](#)

**306.**

1371D

[Grid-00100 · Tutorial](#)

Quality: 13,708 global accepts · Rating: 1600 · first AC: 2020-07-01 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, greedy, implementation

[aropan's solution](#)

**307.**

1364C

[Ehab and Prefix MEXs · Tutorial](#)

Quality: 14,359 global accepts · Rating: 1600 · first AC: 2020-06-13 · C++17 (GCC 7-32) (first AC) · Tags: brute force, constructive algorithms, greedy

[aropan's solution](#)

**308.**

1363C

[Game On Leaves · Tutorial](#)

Quality: 21,079 global accepts · Rating: 1600 · first AC: 2020-05-31 · C++17 (GCC 7-32) (first AC) · Tags: games, trees

[aropan's solution](#)

**309.**

1344A

[Hilbert's Hotel · Tutorial](#)

Quality: 16,503 global accepts · Rating: 1600 · first AC: 2020-05-06 · C++17 (GCC 7-32) (first AC) · Tags: math, number theory, sortings

[aropan's solution](#)

**310.**

1336A

[Linova and Kingdom · Tutorial](#)

Quality: 24,668 global accepts · Rating: 1600 · first AC: 2020-04-15 · C++17 (GCC 7-32) (first AC) · Tags: dfs and similar, dp, greedy, sortings, trees

[aropan's solution](#)

**311.**

1188A1

[Add on a Tree · Tutorial](#)

Quality: 8,935 global accepts · Rating: 1600 · first AC: 2019-07-05 · C++17 (GCC 7-32) (first AC) · Tags: trees

[aropan's solution](#)

**312.**

1028C

[Rectangles · Tutorial](#)

Quality: 5,052 global accepts · Rating: 1600 · first AC: 2018-08-27 · C++17 (GCC 7-32) (first AC) · Tags: geometry, implementation, sortings

[aropan's solution](#)

**313.**

932C

[Permutation Cycle · Tutorial](#)

Quality: 4,239 global accepts · Rating: 1600 · first AC: 2018-02-15 · C++14 (GCC 6-32) (first AC) · Tags: brute force, constructive algorithms

[aropan's solution](#)

**314.**

860B

[Polycarp's phone book](#) · [Tutorial](#)

Rating: 1600 · first AC: 2017-09-17 · C++14 (GCC 6-32) (first AC) · Tags: brute force, data structures, hashing, implementation, strings  
[aropan's solution](#)

**315.**

655C

[Enduring Exodus](#) · [Tutorial](#)

Rating: 1600 · first AC: 2016-03-18 · GNU C++11 (first AC) · Tags: binary search, two pointers  
[aropan's solution](#)

**316.**

626C

[Block Towers](#) · [Tutorial](#)

Quality: 4,616 global accepts · Rating: 1600 · first AC: 2016-02-13 · GNU C++11 (first AC) · Tags: brute force, greedy, math, number theory  
[aropan's solution](#)

**317.**

618C

[Constellation](#) · [Tutorial](#)

Quality: 4,664 global accepts · Rating: 1600 · first AC: 2016-01-29 · GNU C++11 (first AC) · Tags: geometry, implementation  
[aropan's solution](#)

**318.**

538C

[Tourist's Notes](#) · [Tutorial](#)

Quality: 6,140 global accepts · Rating: 1600 · first AC: 2015-04-26 · GNU C++11 (first AC) · Tags: binary search, brute force, greedy, implementation, math  
[aropan's solution](#)

**319.**

477A

[Dreamoon and Sums](#) · [Tutorial](#)

Rating: 1600 · first AC: 2014-10-12 · GNU C++ (first AC) · Tags: math  
[aropan's solution](#)

**320.**

429B

[Working out](#) · [Tutorial](#)

Quality: 10,213 global accepts · Rating: 1600 · first AC: 2014-05-11 · GNU C++ (first AC) · Tags: dp  
[aropan's solution](#)

**321.**

380A

[Sereja and Prefixes](#) · [Tutorial](#)

Quality: 2,911 global accepts · Rating: 1600 · first AC: 2014-01-12 · GNU C++ (first AC) · Tags: binary search, brute force  
[aropan's solution](#)

**322.**

377A

[Maze](#) · [Tutorial](#)

Quality: 27,053 global accepts · Rating: 1600 · first AC: 2013-12-29 · GNU C++ (first AC) · Tags: dfs and similar  
[aropan's solution](#)

**323.**

372A

[Counting Kangaroos is Fun](#) · [Tutorial](#)

Quality: 15,594 global accepts · Rating: 1600 · first AC: 2013-12-13 · GNU C++ (first AC) · Tags: binary search, greedy, sortings, two pointers  
[aropan's solution](#)

**324.**

343A

[Rational Resistance](#) · [Tutorial](#)

Quality: 10,082 global accepts · Rating: 1600 · first AC: 2013-09-14 · GNU C++ (first AC) · Tags: math, number theory  
[aropan's solution](#)

**325.**

343B

[Alternating Current](#) · [Tutorial](#)

Quality: 17,296 global accepts · Rating: 1600 · first AC: 2013-09-14 · GNU C++ (first AC) · Tags: data structures, greedy, implementation  
[aropan's solution](#)

**326.**

341A

[Tourist Problem](#) · [Tutorial](#)

Rating: 1600 · first AC: 2013-08-30 · GNU C++ (first AC) · Tags: math  
[aropan's solution](#)

**327.**

338A

[Quiz](#) · [Tutorial](#)

Rating: 1600 · first AC: 2013-08-16 · GNU C++ (first AC) · Tags: greedy, math, number theory  
[aropan's solution](#)

**328.**

317A

[Perfect Pair](#) · [Tutorial](#)

Quality: 4,938 global accepts · Rating: 1600 · first AC: 2013-06-14 · GNU C++ (first AC) · Tags: brute force  
[aropan's solution](#)

**329.**

297B

[Fish Weight](#) · [Tutorial](#)

Quality: 3,766 global accepts · Rating: 1600 · first AC: 2013-04-19 · GNU C++ (first AC) · Tags: constructive algorithms, greedy  
[aropan's solution](#)

**330.**

291D

[Parallel Programming](#) · [Tutorial](#)

Quality: 1,539 global accepts · Rating: 1600 · first AC: 2013-04-14 · GNU C++ (first AC) · Tags: \*special, greedy  
[aropan's solution](#)

**331.**

291C

[Network Mask](#) · [Tutorial](#)

Quality: 1,852 global accepts · Rating: 1600 · first AC: 2013-04-14 · GNU C++ (first AC) · Tags: \*special, bitmasks, brute force, implementation  
[aropan's solution](#)

**332.**

269A

[Magical Boxes](#) · [Tutorial](#)

Quality: 3,699 global accepts · Rating: 1600 · first AC: 2013-02-01 · GNU C++ (first AC) · Tags: greedy, math  
[aropan's solution](#)

**333.**

243A

[The Brand New Function](#) · [Tutorial](#)

Quality: 4,466 global accepts · Rating: 1600 · first AC: 2012-11-16 · GNU C++ (first AC) · Tags: bitmasks  
[aropan's solution](#)

**334.**

237C

[Primes on Interval](#) · [Tutorial](#)

Quality: 6,648 global accepts · Rating: 1600 · first AC: 2012-10-25 · GNU C++ (first AC) · Tags: binary search, number theory, two pointers  
[aropan's solution](#)

**335.**

232A

[Cycles](#) · [Tutorial](#)

Quality: 2,842 global accepts · Rating: 1600 · first AC: 2012-10-11 · GNU C++ (first AC) · Tags: binary search, constructive algorithms, graphs, greedy  
[aropan's solution](#)

**336.**

207B1

[Military Trainings](#) · [Tutorial](#)

Quality: 357 global accepts · Rating: 1600 · first AC: 2012-07-08 · last AC: 2012-07-08 · GNU C++ (first AC) · Tags: —  
[aropan's solution](#)

**337.**

207A1

[Beaver's Calculator 1.0](#) · [Tutorial](#)

Quality: 370 global accepts · Rating: 1600 · first AC: 2012-07-08 · GNU C++ (first AC) · Tags: greedy  
[aropan's solution](#)

**338.**

178C1

[Smart Beaver and Resolving Collisions](#) · [Tutorial](#)

Quality: 586 global accepts · Rating: 1600 · first AC: 2012-04-28 · GNU C++ (first AC) · Tags: —  
[aropan's solution](#)

**339.**

178B2

[Greedy Merchants](#) · [Tutorial](#)

Quality: 770 global accepts · Rating: 1600 · first AC: 2012-04-28 · GNU C++ (first AC) · Tags: —  
[aropan's solution](#)

**340.**

178B1

[Greedy Merchants](#) · [Tutorial](#)

Quality: 865 global accepts · Rating: 1600 · first AC: 2012-04-28 · GNU C++ (first AC) · Tags: —  
[aropan's solution](#)

**341.**

171G

[Mysterious numbers - 2](#) · [Tutorial](#)

Quality: 1,066 global accepts · Rating: 1600 · first AC: 2012-04-01 · GNU C++ (first AC) · Tags: \*special  
[aropan's solution](#)

**342.**

171F

[ucyhf](#) · [Tutorial](#)

Quality: 1,485 global accepts · Rating: 1600 · first AC: 2012-04-01 · GNU C++ (first AC) · Tags: \*special, brute force, implementation, number theory  
[aropan's solution](#)

**343.**

167A

[Wizards and Trolleybuses](#) · [Tutorial](#)

Quality: 2,186 global accepts · Rating: 1600 · first AC: 2012-03-27 · GNU C++ (first AC) · Tags: implementation, math  
[aropan's solution](#)

**344.**

156B

[Suspects](#) · [Tutorial](#)

Quality: 2,449 global accepts · Rating: 1600 · first AC: 2012-02-29 · GNU C++ (first AC) · Tags: constructive algorithms, data structures, implementation  
[aropan's solution](#)

**345.**

142A

[Help Farmer](#) · [Tutorial](#)

Quality: 2,844 global accepts · Rating: 1600 · first AC: 2012-01-12 · GNU C++ (first AC) · Tags: brute force, math  
[aropan's solution](#)

**346.**

138A

[Literature Lesson](#) · [Tutorial](#)

Quality: 2,590 global accepts · Rating: 1600 · first AC: 2011-12-24 · GNU C++ (first AC) · Tags: implementation

[aropan's solution](#)

**347.**

135B

[Rectangle and Square](#) · [Tutorial](#)

Quality: 2,653 global accepts · Rating: 1600 · first AC: 2011-12-14 · last AC: 2011-12-14 · GNU C++ (first AC) · Tags: brute force, geometry, math

[aropan's solution](#)

**348.**

130H

[Balanced brackets](#) · [Tutorial](#)

Quality: 929 global accepts · Rating: 1600 · first AC: 2011-11-20 · Befunge (first AC) · Tags: \*special

[aropan's solution](#)

**349.**

130F

[Prime factorization](#) · [Tutorial](#)

Quality: 300 global accepts · Rating: 1600 · first AC: 2011-11-20 · Befunge (first AC) · Tags: \*special

[aropan's solution](#)

**350.**

130E

[Tribonacci numbers](#) · [Tutorial](#)

Quality: 323 global accepts · Rating: 1600 · first AC: 2011-11-20 · Befunge (first AC) · Tags: \*special

[aropan's solution](#)

**351.**

113A

[Grammar Lessons](#) · [Tutorial](#)

Quality: 2,603 global accepts · Rating: 1600 · first AC: 2011-09-08 · GNU C++ (first AC) · Tags: implementation, strings

[aropan's solution](#)

**352.**

107B

[Basketball Team](#) · [Tutorial](#)

Quality: 4,273 global accepts · Rating: 1600 · first AC: 2011-08-23 · GNU C++ (first AC) · Tags: combinatorics, dp, math, probabilities

[aropan's solution](#)

**353.**

95A

[Hockey](#) · [Tutorial](#)

Quality: 1,856 global accepts · Rating: 1600 · first AC: 2011-08-14 · GNU C++ (first AC) · Tags: implementation, strings

[aropan's solution](#)

**354.**

86A

[Reflection](#) · [Tutorial](#)

Quality: 1,660 global accepts · Rating: 1600 · first AC: 2011-05-22 · GNU C++ (first AC) · Tags: math

[aropan's solution](#)

**355.**

73A

[The Elder Trolls IV: Oblivon](#) · [Tutorial](#)

Quality: 1,640 global accepts · Rating: 1600 · first AC: 2011-04-10 · GNU C++ (first AC) · Tags: greedy, math

[aropan's solution](#)

**356.**

71C

[Round Table Knights](#) · [Tutorial](#)

Quality: 7,329 global accepts · Rating: 1600 · first AC: 2011-04-01 · GNU C++ (first AC) · Tags: dp, math, number theory

[aropan's solution](#)

**357.**

70B

[Text Messaging](#) · [Tutorial](#)

Quality: 2,102 global accepts · Rating: 1600 · first AC: 2011-03-26 · GNU C++ (first AC) · Tags: expression parsing, greedy, strings

[aropan's solution](#)

**358.**

68B

[Energy exchange](#) · [Tutorial](#)

Quality: 5,579 global accepts · Rating: 1600 · first AC: 2011-03-18 · GNU C++ (first AC) · Tags: binary search

[aropan's solution](#)

**359.**

64C

[Table](#) · [Tutorial](#)

Quality: 356 global accepts · Rating: 1600 · first AC: 2011-02-21 · Tcl (first AC) · Tags: \*special, greedy, implementation, math

[aropan's solution](#)

**360.**

57B

[Martian Architecture](#) · [Tutorial](#)

Quality: 1,167 global accepts · Rating: 1600 · first AC: 2011-01-25 · GNU C++ (first AC) · Tags: implementation

[aropan's solution](#)

**361.**

40B

[Repaintings](#) · [Tutorial](#)

Quality: 1,397 global accepts · Rating: 1600 · first AC: 2010-11-05 · GNU C++ (first AC) · Tags: math

[aropan's solution](#)

**362.**

34D

[Road Map](#) · [Tutorial](#)

Quality: 6,490 global accepts · Rating: 1600 · first AC: 2010-10-11 · GNU C++ (first AC) · Tags: dfs and similar, graphs

[aropan's solution](#)

**363.**

28A

[Bender Problem](#) · [Tutorial](#)

Quality: 970 global accepts · Rating: 1600 · first AC: 2010-09-17 · GNU C++ (first AC) · Tags: implementation

[aropan's solution](#)

**364.**

28B

[pSort](#) · [Tutorial](#)

Quality: 5,519 global accepts · Rating: 1600 · first AC: 2010-09-17 · GNU C++ (first AC) · Tags: dfs and similar, dsu, graphs

[aropan's solution](#)

**365.**

23B

[Party](#) · [Tutorial](#)

Quality: 3,861 global accepts · Rating: 1600 · first AC: 2010-07-09 · GNU C++ (first AC) · Tags: constructive algorithms, graphs, math

[aropan's solution](#)

**366.**

7B

[Memory Manager](#) · [Tutorial](#)

Quality: 2,957 global accepts · Rating: 1600 · first AC: 2010-04-06 · GNU C++ (first AC) · Tags: implementation

[aropan's solution](#)

**367.**

1586C

[Omkar and Determination](#) · [Tutorial](#)

Rating: 1700 · first AC: 2021-10-17 · C++17 (GCC 9-64) (first AC) · Tags: constructive algorithms, dp, greedy, implementation, two pointers

[aropan's solution](#)

**368.**

1422C

[Bargain](#) · [Tutorial](#)

Quality: 8,842 global accepts · Rating: 1700 · first AC: 2020-10-06 · C++17 (GCC 7-32) (first AC) · Tags: combinatorics, dp, math

[aropan's solution](#)

**369.**

245C

[Game with Coins](#) · [Tutorial](#)

Quality: 1,687 global accepts · Rating: 1700 · first AC: 2020-09-02 · C++17 (GCC 7-32) (first AC) · Tags: greedy

[aropan's solution](#)

**370.**

183A

[Headquarters](#) · [Tutorial](#)

Quality: 666 global accepts · Rating: 1700 · first AC: 2020-08-28 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, math

[aropan's solution](#)

**371.**

1381A2

[Prefix Flip \(Hard Version\)](#) · [Tutorial](#)

Quality: 14,326 global accepts · Rating: 1700 · first AC: 2020-07-21 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, data structures, implementation, strings, two pointers

[aropan's solution](#)

**372.**

1368D

[AND, OR and square sum](#) · [Tutorial](#)

Quality: 13,662 global accepts · Rating: 1700 · first AC: 2020-06-18 · C++17 (GCC 7-32) (first AC) · Tags: bitmasks, greedy, math

[aropan's solution](#)

**373.**

1361A

[Johnny and Contribution](#) · [Tutorial](#)

Quality: 8,845 global accepts · Rating: 1700 · first AC: 2020-06-04 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, graphs, greedy, sortings

[aropan's solution](#)

**374.**

1340B

[Nastya and Scoreboard](#) · [Tutorial](#)

Quality: 8,311 global accepts · Rating: 1700 · first AC: 2020-04-23 · C++17 (GCC 7-32) (first AC) · Tags: bitmasks, dp, graphs, greedy

[aropan's solution](#)

**375.**

1336B

[Xenia and Colorful Gems](#) · [Tutorial](#)

Quality: 12,128 global accepts · Rating: 1700 · first AC: 2020-04-15 · C++17 (GCC 7-32) (first AC) · Tags: binary search, greedy, math, sortings, two pointers

[aropan's solution](#)

**376.**

1314A

[Recommendations](#) · [Tutorial](#)

Rating: 1700 · first AC: 2020-02-23 · C++17 (GCC 7-32) (first AC) · Tags: data structures, greedy, sortings

[aropan's solution](#)

**377.**

1254A

[Feeding Chicken](#) · [Tutorial](#)

Quality: 5,515 global accepts · Rating: 1700 · first AC: 2019-11-19 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, greedy, implementation

[aropan's solution](#)

**378.**

1037D

[Valid BFS?](#) · [Tutorial](#)

Quality: 19,103 global accepts · Rating: 1700 · first AC: 2018-09-02 · C++17 (GCC 7-32) (first AC) · Tags: dfs and similar, graphs, shortest paths, trees

[aropan's solution](#)

**379.**

766C

[Mahmoud and a Message](#) · [Tutorial](#)

Quality: 4,941 global accepts · Rating: 1700 · first AC: 2017-02-07 · GNU C++11 (first AC) · Tags: brute force, dp, greedy, strings  
[aropan's solution](#)

**380.**

627B

[Factory Repairs](#) · [Tutorial](#)

Quality: 3,402 global accepts · Rating: 1700 · first AC: 2016-02-28 · GNU C++11 (first AC) · Tags: data structures  
[aropan's solution](#)

**381.**

627A

[XOR Equation](#) · [Tutorial](#)

Quality: 4,798 global accepts · Rating: 1700 · first AC: 2016-02-28 · GNU C++11 (first AC) · Tags: dp, math  
[aropan's solution](#)

**382.**

585B

[Phillip and Trains](#) · [Tutorial](#)

Quality: 3,810 global accepts · Rating: 1700 · first AC: 2015-10-12 · GNU C++11 (first AC) · Tags: dfs and similar, graphs, shortest paths  
[aropan's solution](#)

**383.**

442A

[Borya and Hanabi](#) · [Tutorial](#)

Quality: 2,352 global accepts · Rating: 1700 · first AC: 2014-06-19 · GNU C++ (first AC) · Tags: bitmasks, brute force, implementation  
[aropan's solution](#)

**384.**

387C

[George and Number](#) · [Tutorial](#)

Quality: 2,287 global accepts · Rating: 1700 · first AC: 2014-01-30 · Python 2 (first AC) · Tags: greedy, implementation  
[aropan's solution](#)

**385.**

303B

[Rectangle Puzzle II](#) · [Tutorial](#)

Quality: 1,424 global accepts · Rating: 1700 · first AC: 2013-05-12 · GNU C++ (first AC) · Tags: implementation, math  
[aropan's solution](#)

**386.**

297A

[Parity Game](#) · [Tutorial](#)

Quality: 3,860 global accepts · Rating: 1700 · first AC: 2013-04-19 · GNU C++ (first AC) · Tags: constructive algorithms  
[aropan's solution](#)

**387.**

269B

[Greenhouse Effect](#) · [Tutorial](#)

Quality: 6,991 global accepts · Rating: 1700 · first AC: 2013-02-01 · GNU C++ (first AC) · Tags: dp  
[aropan's solution](#)

**388.**

229B

[Planets](#) · [Tutorial](#)

Quality: 5,786 global accepts · Rating: 1700 · first AC: 2012-10-01 · GNU C++ (first AC) · Tags: binary search, data structures, graphs, shortest paths  
[aropan's solution](#)

**389.**

213A

[Game](#) · [Tutorial](#)

Quality: 1,889 global accepts · Rating: 1700 · first AC: 2012-07-30 · GNU C++ (first AC) · Tags: dfs and similar, greedy  
[aropan's solution](#)

**390.**

203D

[Hit Ball](#) · [Tutorial](#)

Quality: 1,514 global accepts · Rating: 1700 · first AC: 2012-07-03 · last AC: 2012-07-03 · Python 2 (first AC) · Tags: geometry, implementation, math

[aropan's solution](#)

**391.**

201A

[Clear Symmetry](#) · [Tutorial](#)

Quality: 3,246 global accepts · Rating: 1700 · first AC: 2012-06-29 · Python 2 (first AC) · Tags: constructive algorithms, dp, math

[aropan's solution](#)

**392.**

198A

[About Bacteria](#) · [Tutorial](#)

Quality: 3,329 global accepts · Rating: 1700 · first AC: 2012-06-22 · GNU C++ (first AC) · Tags: implementation, math

[aropan's solution](#)

**393.**

193A

[Cutting Figure](#) · [Tutorial](#)

Quality: 4,681 global accepts · Rating: 1700 · first AC: 2012-06-03 · GNU C++ (first AC) · Tags: constructive algorithms, graphs, trees

[aropan's solution](#)

**394.**

191B

[Demonstration](#) · [Tutorial](#)

Quality: 1,101 global accepts · Rating: 1700 · first AC: 2012-05-27 · GNU C++ (first AC) · Tags: greedy

[aropan's solution](#)

**395.**

176B

[Word Cut](#) · [Tutorial](#)

Quality: 2,389 global accepts · Rating: 1700 · first AC: 2012-04-20 · GNU C++ (first AC) · Tags: dp

[aropan's solution](#)

**396.**

164A

[Variable, or There and Back Again](#) · [Tutorial](#)

Quality: 1,197 global accepts · Rating: 1700 · first AC: 2012-04-08 · GNU C++ (first AC) · Tags: dfs and similar, graphs

[aropan's solution](#)

**397.**

171H

[A polyline](#) · [Tutorial](#)

Quality: 335 global accepts · Rating: 1700 · first AC: 2012-04-01 · GNU C++ (first AC) · Tags: \*special, implementation

[aropan's solution](#)

**398.**

163A

[Substring and Subsequence](#) · [Tutorial](#)

Quality: 2,995 global accepts · Rating: 1700 · first AC: 2012-03-25 · GNU C++ (first AC) · Tags: dp

[aropan's solution](#)

**399.**

161B

[Discounts](#) · [Tutorial](#)

Quality: 2,090 global accepts · Rating: 1700 · first AC: 2012-03-11 · GNU C++ (first AC) · Tags: constructive algorithms, greedy, sortings

[aropan's solution](#)

**400.**

156A

[Message](#) · [Tutorial](#)

Quality: 3,271 global accepts · Rating: 1700 · first AC: 2012-02-29 · GNU C++ (first AC) · Tags: brute force

[aropan's solution](#)

**401.**

140A

[New Year Table](#) · [Tutorial](#)

Quality: 4,368 global accepts · Rating: 1700 · first AC: 2012-01-04 · GNU C++ (first AC) · Tags: geometry, math  
[aropan's solution](#)

**402.**

130G

[CAPS LOCK ON](#) · [Tutorial](#)

Quality: 300 global accepts · Rating: 1700 · first AC: 2011-11-20 · Befunge (first AC) · Tags: \*special  
[aropan's solution](#)

**403.**

126B

[Password](#) · [Tutorial](#)

Quality: 24,769 global accepts · Rating: 1700 · first AC: 2011-11-09 · GNU C++ (first AC) · Tags: binary search, dp, hashing, string suffix structures, strings  
[aropan's solution](#)

**404.**

106C

[Buns](#) · [Tutorial](#)

Quality: 7,060 global accepts · Rating: 1700 · first AC: 2011-08-19 · GNU C++ (first AC) · Tags: dp  
[aropan's solution](#)

**405.**

101B

[Buses](#) · [Tutorial](#)

Quality: 3,194 global accepts · Rating: 1700 · first AC: 2011-08-15 · GNU C++ (first AC) · Tags: binary search, data structures, dp  
[aropan's solution](#)

**406.**

98A

[Help Victoria the Wise](#) · [Tutorial](#)

Quality: 1,349 global accepts · Rating: 1700 · first AC: 2011-08-01 · GNU C++ (first AC) · Tags: brute force, implementation  
[aropan's solution](#)

**407.**

93A

[Frames](#) · [Tutorial](#)

Quality: 2,072 global accepts · Rating: 1700 · first AC: 2011-06-30 · GNU C++ (first AC) · Tags: implementation  
[aropan's solution](#)

**408.**

82B

[Sets](#) · [Tutorial](#)

Quality: 2,336 global accepts · Rating: 1700 · first AC: 2011-05-06 · GNU C++ (first AC) · Tags: constructive algorithms, hashing, implementation  
[aropan's solution](#)

**409.**

76E

[Points](#) · [Tutorial](#)

Quality: 1,892 global accepts · Rating: 1700 · first AC: 2011-04-12 · GNU C++ (first AC) · Tags: implementation, math  
[aropan's solution](#)

**410.**

76D

[Plus and xor](#) · [Tutorial](#)

Quality: 2,403 global accepts · Rating: 1700 · first AC: 2011-04-12 · GNU C++ (first AC) · Tags: dp, greedy, math  
[aropan's solution](#)

**411.**

65B

[Harry Potter and the History of Magic](#) · [Tutorial](#)

Quality: 1,552 global accepts · Rating: 1700 · first AC: 2011-03-05 · GNU C++ (first AC) · Tags: brute force, greedy, implementation

[aropan's solution](#)

**412.**

49C

[Disposition](#) · [Tutorial](#)

Quality: 1,867 global accepts · Rating: 1700 · first AC: 2010-12-17 · GNU C++ (first AC) · Tags: constructive algorithms, math  
[aropan's solution](#)

**413.**

44H

[Phone Number](#) · [Tutorial](#)

Quality: 2,003 global accepts · Rating: 1700 · first AC: 2010-11-06 · GNU C++ (first AC) · Tags: dp  
[aropan's solution](#)

**414.**

30B

[Codeforces World Finals](#) · [Tutorial](#)

Quality: 1,387 global accepts · Rating: 1700 · first AC: 2010-09-24 · GNU C++ (first AC) · Tags: implementation  
[aropan's solution](#)

**415.**

440C

[One-Based Arithmetic](#) · [Tutorial](#)

Quality: 1,139 global accepts · Rating: 1800 · first AC: 2026-02-16 · C++23 (GCC 14-64, msys2) (first AC) · Tags: brute force, dfs and similar, divide and conquer  
[aropan's solution](#)

**416.**

1769D1

[A,3D0C! CT2D6BCαC I](#)

Quality: 421 global accepts · Rating: 1800 · first AC: 2022-12-17 · C++17 (GCC 7-32) (first AC) · Tags: \*special, brute force, dp  
[aropan's solution](#)

**417.**

687B

[Remainders Game](#) · [Tutorial](#)

Quality: 6,849 global accepts · Rating: 1800 · first AC: 2022-07-20 · last AC: 2022-07-20 · C++17 (GCC 7-32) (first AC) · Tags: chinese remainder theorem, math, number theory  
[aropan's solution](#)

**418.**

1637D

[Yet Another Minimization Problem](#) · [Tutorial](#)

Quality: 8,921 global accepts · Rating: 1800 · first AC: 2022-02-12 · C++17 (GCC 7-32) (first AC) · Tags: dp, greedy, math  
[aropan's solution](#)

**419.**

1586D

[Omkar and the Meaning of Life](#) · [Tutorial](#)

Rating: 1800 · first AC: 2021-10-17 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, greedy, interactive, math  
[aropan's solution](#)

**420.**

1556D

[Take a Guess](#) · [Tutorial](#)

Quality: 8,597 global accepts · Rating: 1800 · first AC: 2021-08-29 · C++17 (GCC 7-32) (first AC) · Tags: bitmasks, constructive algorithms, interactive, math  
[aropan's solution](#)

**421.**

1556C

[Compressed Bracket Sequence](#) · [Tutorial](#)

Quality: 6,216 global accepts · Rating: 1800 · first AC: 2021-08-29 · C++17 (GCC 7-32) (first AC) · Tags: brute force, implementation  
[aropan's solution](#)

**422.**

1446B

[Catching Cheaters](#) · [Tutorial](#)

Quality: 9,038 global accepts · Rating: 1800 · first AC: 2020-11-15 · C++17 (GCC 7-32) (first AC) · Tags: dp, strings

[aropan's solution](#)

**423.**

433C

[Ryouko's Memory Note](#) · [Tutorial](#)

Quality: 2,619 global accepts · Rating: 1800 · first AC: 2020-08-22 · C++17 (GCC 7-32) (first AC) · Tags: implementation, math, sortings

[aropan's solution](#)

**424.**

1381B

[Unmerge](#) · [Tutorial](#)

Quality: 9,566 global accepts · Rating: 1800 · first AC: 2020-07-21 · C++17 (GCC 7-32) (first AC) · Tags: dp

[aropan's solution](#)

**425.**

1338B

[Edge Weight Assignment](#) · [Tutorial](#)

Quality: 9,523 global accepts · Rating: 1800 · first AC: 2020-04-12 · C++17 (GCC 7-32) (first AC) · Tags: bitmasks, constructive algorithms, dfs and similar, greedy, math, trees

[aropan's solution](#)

**426.**

1326D2

[Prefix-Suffix Palindrome \(Hard version\)](#) · [Tutorial](#)

Quality: 11,758 global accepts · Rating: 1800 · first AC: 2020-03-19 · C++17 (GCC 7-32) (first AC) · Tags: binary search, greedy, hashing, string suffix structures, strings

[aropan's solution](#)

**427.**

1299B

[Aerodynamic](#) · [Tutorial](#)

Quality: 5,611 global accepts · Rating: 1800 · first AC: 2020-02-09 · C++17 (GCC 7-32) (first AC) · Tags: geometry

[aropan's solution](#)

**428.**

1254B1

[Send Boxes to Alice \(Easy Version\)](#) · [Tutorial](#)

Quality: 5,007 global accepts · Rating: 1800 · first AC: 2019-11-19 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, greedy, math, number theory, ternary search, two pointers

[aropan's solution](#)

**429.**

1083A

[The Fair Nut and the Best Path](#) · [Tutorial](#)

Quality: 6,271 global accepts · Rating: 1800 · first AC: 2018-12-10 · C++14 (GCC 6-32) (first AC) · Tags: data structures, dp, trees

[aropan's solution](#)

**430.**

1067B

[Multihedgehog](#) · [Tutorial](#)

Quality: 2,860 global accepts · Rating: 1800 · first AC: 2018-10-24 · C++14 (GCC 6-32) (first AC) · Tags: dfs and similar, graphs, shortest paths

[aropan's solution](#)

**431.**

1063B

[Labyrinth](#) · [Tutorial](#)

Quality: 9,254 global accepts · Rating: 1800 · first AC: 2018-10-14 · C++17 (GCC 7-32) (first AC) · Tags: graphs, shortest paths

[aropan's solution](#)

**432.**

1053A

[Vasya and Triangle](#) · [Tutorial](#)

Rating: 1800 · first AC: 2018-09-23 · C++17 (GCC 7-32) (first AC) · Tags: geometry

[aropan's solution](#)

**433.**

914C

[Travelling Salesman and Special Numbers](#) · [Tutorial](#)

Quality: 4,210 global accepts · Rating: 1800 · first AC: 2018-01-22 · C++14 (GCC 6-32) (first AC) · Tags: brute force, combinatorics, dp

[aropan's solution](#)

**434.**

655D

[Robot Rapping Results Report](#) · [Tutorial](#)

Rating: 1800 · first AC: 2016-03-18 · GNU C++11 (first AC) · Tags: binary search, dp, graphs

[aropan's solution](#)

**435.**

626D

[Jerry's Protest](#) · [Tutorial](#)

Quality: 3,161 global accepts · Rating: 1800 · first AC: 2016-02-13 · GNU C++11 (first AC) · Tags: brute force, combinatorics, dp, probabilities

[aropan's solution](#)

**436.**

623A

[Graph and String](#) · [Tutorial](#)

Quality: 4,789 global accepts · Rating: 1800 · first AC: 2016-02-04 · GNU C++11 (first AC) · Tags: constructive algorithms, graphs

[aropan's solution](#)

**437.**

585A

[Gennady the Dentist](#) · [Tutorial](#)

Quality: 4,476 global accepts · Rating: 1800 · first AC: 2015-10-12 · GNU C++11 (first AC) · Tags: brute force, implementation

[aropan's solution](#)

**438.**

538D

[Weird Chess](#) · [Tutorial](#)

Quality: 2,522 global accepts · Rating: 1800 · first AC: 2015-04-26 · GNU C++ (first AC) · Tags: brute force, constructive algorithms, implementation

[aropan's solution](#)

**439.**

513G1

[Inversions problem](#) · [Tutorial](#)

Quality: 1,847 global accepts · Rating: 1800 · first AC: 2015-02-07 · GNU C++0x (first AC) · Tags: brute force, dfs and similar, dp, meet-in-the-middle

[aropan's solution](#)

**440.**

513B2

[Permutations](#) · [Tutorial](#)

Quality: 2,930 global accepts · Rating: 1800 · first AC: 2015-02-07 · GNU C++ (first AC) · Tags: bitmasks, divide and conquer, math

[aropan's solution](#)

**441.**

487A

[Fight the Monster](#) · [Tutorial](#)

Quality: 3,952 global accepts · Rating: 1800 · first AC: 2014-11-21 · GNU C++ (first AC) · Tags: binary search, brute force, implementation

[aropan's solution](#)

**442.**

482B

[Interesting Array](#) · [Tutorial](#)

Quality: 7,729 global accepts · Rating: 1800 · first AC: 2014-10-24 · GNU C++ (first AC) · Tags: constructive algorithms, data structures, trees

[aropan's solution](#)

**443.**

452B

[4-point polyline](#) · [Tutorial](#)

Quality: 2,118 global accepts · Rating: 1800 · first AC: 2014-07-27 · GNU C++ (first AC) · Tags: brute force, constructive algorithms, geometry, trees

[aropan's solution](#)

**444.**

403B

[Upgrading Array](#) · [Tutorial](#)

Rating: 1800 · first AC: 2014-03-16 · GNU C++ (first AC) · Tags: dp, greedy, math, number theory

[aropan's solution](#)

**445.**

280B

[Maximum Xor Secondary](#) · [Tutorial](#)

Quality: 5,251 global accepts · Rating: 1800 · first AC: 2013-03-10 · GNU C++ (first AC) · Tags: data structures, implementation, two pointers

[aropan's solution](#)

**446.**

274B

[Zero Tree](#) · [Tutorial](#)

Quality: 5,571 global accepts · Rating: 1800 · first AC: 2013-02-20 · GNU C++ (first AC) · Tags: dfs and similar, dp, greedy, trees

[aropan's solution](#)

**447.**

251B

[Playing with Permutations](#) · [Tutorial](#)

Quality: 1,380 global accepts · Rating: 1800 · first AC: 2012-12-06 · GNU C++ (first AC) · Tags: implementation, math

[aropan's solution](#)

**448.**

220B

[Little Elephant and Array](#) · [Tutorial](#)

Quality: 12,886 global accepts · Rating: 1800 · first AC: 2012-08-31 · GNU C++ (first AC) · Tags: constructive algorithms, data structures

[aropan's solution](#)

**449.**

207A2

[Beaver's Calculator 1.0](#) · [Tutorial](#)

Quality: 305 global accepts · Rating: 1800 · first AC: 2012-07-08 · GNU C++ (first AC) · Tags: greedy

[aropan's solution](#)

**450.**

207D1

[The Beaver's Problem - 3](#) · [Tutorial](#)

Quality: 124 global accepts · Rating: 1800 · first AC: 2012-07-08 · GNU C++ (first AC) · Tags: —

[aropan's solution](#)

**451.**

201B

[Guess That Car!](#) · [Tutorial](#)

Quality: 1,392 global accepts · Rating: 1800 · first AC: 2012-06-29 · GNU C++ (first AC) · Tags: math, ternary search

[aropan's solution](#)

**452.**

178F1

[Representative Sampling](#) · [Tutorial](#)

Quality: 459 global accepts · Rating: 1800 · first AC: 2012-04-28 · GNU C++ (first AC) · Tags: —

[aropan's solution](#)

**453.**

178B3

[Greedy Merchants](#) · [Tutorial](#)

Quality: 1,525 global accepts · Rating: 1800 · first AC: 2012-04-28 · GNU C++ (first AC) · Tags: —

[aropan's solution](#)

**454.**

182E

[Wooden Fence](#) · [Tutorial](#)

Quality: 1,666 global accepts · Rating: 1800 · first AC: 2012-04-24 · GNU C++ (first AC) · Tags: dp

[aropan's solution](#)

**455.**

180E

[Cubes](#) · [Tutorial](#)

Quality: 2,067 global accepts · Rating: 1800 · first AC: 2012-04-22 · Python 2 (first AC) · Tags: binary search, dp, two pointers

[aropan's solution](#)

**456.**

173B

[Chamber of Secrets](#) · [Tutorial](#)

Quality: 3,990 global accepts · Rating: 1800 · first AC: 2012-04-08 · GNU C++ (first AC) · Tags: dfs and similar, shortest paths

[aropan's solution](#)

**457.**

167B

[Wizards and Huge Prize](#) · [Tutorial](#)

Quality: 2,452 global accepts · Rating: 1800 · first AC: 2012-03-27 · GNU C++ (first AC) · Tags: dp, math, probabilities

[aropan's solution](#)

**458.**

161D

[Distance in Tree](#) · [Tutorial](#)

Quality: 19,179 global accepts · Rating: 1800 · first AC: 2012-03-11 · GNU C++ (first AC) · Tags: dfs and similar, dp, trees

[aropan's solution](#)

**459.**

141C

[Queue](#) · [Tutorial](#)

Quality: 2,727 global accepts · Rating: 1800 · first AC: 2012-01-08 · GNU C++ (first AC) · Tags: constructive algorithms, greedy, sortings

[aropan's solution](#)

**460.**

140D

[New Year Contest](#) · [Tutorial](#)

Quality: 2,312 global accepts · Rating: 1800 · first AC: 2012-01-04 · GNU C++ (first AC) · Tags: greedy, sortings

[aropan's solution](#)

**461.**

140B

[New Year Cards](#) · [Tutorial](#)

Quality: 1,754 global accepts · Rating: 1800 · first AC: 2012-01-04 · GNU C++ (first AC) · Tags: brute force, greedy, implementation

[aropan's solution](#)

**462.**

140C

[New Year Snowmen](#) · [Tutorial](#)

Quality: 4,755 global accepts · Rating: 1800 · first AC: 2012-01-04 · GNU C++ (first AC) · Tags: binary search, data structures, greedy

[aropan's solution](#)

**463.**

123B

[Squares](#) · [Tutorial](#)

Quality: 1,307 global accepts · Rating: 1800 · first AC: 2011-11-05 · GNU C++ (first AC) · Tags: math

[aropan's solution](#)

**464.**

120G

[Boom](#) · [Tutorial](#)

Quality: 719 global accepts · Rating: 1800 · first AC: 2011-10-18 · GNU C++ (first AC) · Tags: implementation

[aropan's solution](#)

**465.**

120H

[Brevity is Soul of Wit](#) · [Tutorial](#)

Quality: 1,590 global accepts · Rating: 1800 · first AC: 2011-10-18 · GNU C++ (first AC) · Tags: graph matchings  
[aropan's solution](#)

**466.**

95B

[Lucky Numbers](#) · [Tutorial](#)

Quality: 1,399 global accepts · Rating: 1800 · first AC: 2011-08-14 · GNU C++ (first AC) · Tags: dp, greedy  
[aropan's solution](#)

**467.**

85B

[Embassy Queue](#) · [Tutorial](#)

Quality: 1,081 global accepts · Rating: 1800 · first AC: 2011-05-20 · GNU C++ (first AC) · Tags: data structures, greedy  
[aropan's solution](#)

**468.**

83B

[Doctor](#) · [Tutorial](#)

Quality: 1,892 global accepts · Rating: 1800 · first AC: 2011-05-13 · GNU C++ (first AC) · Tags: binary search, math, sortings  
[aropan's solution](#)

**469.**

79C

[Beaver](#) · [Tutorial](#)

Quality: 2,111 global accepts · Rating: 1800 · first AC: 2011-04-30 · GNU C++ (first AC) · Tags: data structures, dp, greedy, hashing, strings, two pointers  
[aropan's solution](#)

**470.**

67B

[Restoration of the Permutation](#) · [Tutorial](#)

Quality: 944 global accepts · Rating: 1800 · first AC: 2011-04-24 · GNU C++ (first AC) · Tags: greedy  
[aropan's solution](#)

**471.**

77B

[Falling Anvils](#) · [Tutorial](#)

Quality: 2,867 global accepts · Rating: 1800 · first AC: 2011-04-19 · GNU C++ (first AC) · Tags: math, probabilities  
[aropan's solution](#)

**472.**

73C

[LionAge II](#) · [Tutorial](#)

Quality: 2,488 global accepts · Rating: 1800 · first AC: 2011-04-10 · GNU C++ (first AC) · Tags: dp  
[aropan's solution](#)

**473.**

67A

[Partial Teacher](#) · [Tutorial](#)

Quality: 2,481 global accepts · Rating: 1800 · first AC: 2011-03-14 · GNU C++ (first AC) · Tags: dp, graphs, greedy, implementation  
[aropan's solution](#)

**474.**

65A

[Harry Potter and Three Spells](#) · [Tutorial](#)

Quality: 2,015 global accepts · Rating: 1800 · first AC: 2011-03-05 · GNU C++ (first AC) · Tags: implementation, math  
[aropan's solution](#)

**475.**

61D

[Eternal Victory](#) · [Tutorial](#)

Quality: 7,639 global accepts · Rating: 1800 · first AC: 2011-02-22 · GNU C++ (first AC) · Tags: dfs and similar, graphs, greedy, shortest paths, trees

[aropan's solution](#)

**476.**

64E

[Prime Segment](#) · [Tutorial](#)

Quality: 295 global accepts · Rating: 1800 · first AC: 2011-02-21 · Tcl (first AC) · Tags: \*special, brute force, math, number theory

[aropan's solution](#)

**477.**

64D

[Presents](#) · [Tutorial](#)

Quality: 298 global accepts · Rating: 1800 · first AC: 2011-02-21 · Tcl (first AC) · Tags: \*special, greedy

[aropan's solution](#)

**478.**

45J

[Planting Trees](#) · [Tutorial](#)

Quality: 1,073 global accepts · Rating: 1800 · first AC: 2010-11-13 · GNU C++ (first AC) · Tags: constructive algorithms

[aropan's solution](#)

**479.**

44D

[Hyperdrive](#) · [Tutorial](#)

Quality: 800 global accepts · Rating: 1800 · first AC: 2010-11-06 · GNU C++ (first AC) · Tags: math

[aropan's solution](#)

**480.**

38E

[Let's Go Rolling!](#) · [Tutorial](#)

Quality: 2,998 global accepts · Rating: 1800 · first AC: 2010-10-30 · GNU C++ (first AC) · Tags: dp, sortings

[aropan's solution](#)

**481.**

30C

[Shooting Gallery](#) · [Tutorial](#)

Quality: 2,394 global accepts · Rating: 1800 · first AC: 2010-09-24 · GNU C++ (first AC) · Tags: dp, probabilities

[aropan's solution](#)

**482.**

24C

[Sequence of points](#) · [Tutorial](#)

Quality: 1,448 global accepts · Rating: 1800 · first AC: 2010-07-26 · GNU C++ (first AC) · Tags: geometry, implementation, math

[aropan's solution](#)

**483.**

3C

[Tic-tac-toe](#) · [Tutorial](#)

Quality: 8,280 global accepts · Rating: 1800 · first AC: 2010-03-07 · GNU C++ (first AC) · Tags: brute force, games, implementation

[aropan's solution](#)

**484.**

1558B

[Up the Strip](#) · [Tutorial](#)

Quality: 5,271 global accepts · Rating: 1900 · first AC: 2021-08-24 · C++17 (GCC 7-32) (first AC) · Tags: brute force, dp, math, number theory, two pointers

[aropan's solution](#)

**485.**

1483B

[Playlist](#) · [Tutorial](#)

Rating: 1900 · first AC: 2021-03-21 · C++17 (GCC 9-64) (first AC) · Tags: data structures, dsu, implementation

[aropan's solution](#)

**486.**

1470B

[Strange Definition](#) · [Tutorial](#)

Quality: 6,776 global accepts · Rating: 1900 · first AC: 2021-01-05 · C++17 (GCC 7-32) (first AC) · Tags: bitmasks, graphs, hashing, math,

number theory

[aropan's solution](#)

**487.**

577B

[Modulo Sum](#) · [Tutorial](#)

Quality: 14,860 global accepts · Rating: 1900 · first AC: 2020-09-02 · C++17 (GCC 7-32) (first AC) · Tags: combinatorics, data structures, dp, two pointers

[aropan's solution](#)

**488.**

999D

[Equalize the Remainders](#) · [Tutorial](#)

Quality: 4,897 global accepts · Rating: 1900 · first AC: 2020-08-22 · C++17 (GCC 7-32) (first AC) · Tags: data structures, greedy, implementation

[aropan's solution](#)

**489.**

1375D

[Replace by MEX](#) · [Tutorial](#)

Quality: 10,142 global accepts · Rating: 1900 · first AC: 2020-07-04 · C++17 (GCC 7-32) (first AC) · Tags: brute force, constructive algorithms, sortings

[aropan's solution](#)

**490.**

1371E1

[Asterism \(Easy Version\)](#) · [Tutorial](#)

Quality: 5,529 global accepts · Rating: 1900 · first AC: 2020-07-01 · C++17 (GCC 7-32) (first AC) · Tags: binary search, brute force, combinatorics, math, number theory, sortings

[aropan's solution](#)

**491.**

1369D

[TediousLee](#) · [Tutorial](#)

Quality: 9,229 global accepts · Rating: 1900 · first AC: 2020-06-23 · C++17 (GCC 7-32) (first AC) · Tags: dp, graphs, greedy, math, trees

[aropan's solution](#)

**492.**

1361B

[Johnny and Grandmaster](#) · [Tutorial](#)

Quality: 3,860 global accepts · Rating: 1900 · first AC: 2020-06-04 · C++17 (GCC 7-32) (first AC) · Tags: greedy, implementation, math, sortings

[aropan's solution](#)

**493.**

1358D

[The Best Vacation](#) · [Tutorial](#)

Quality: 8,724 global accepts · Rating: 1900 · first AC: 2020-05-26 · C++17 (GCC 7-32) (first AC) · Tags: binary search, brute force, greedy, implementation, two pointers

[aropan's solution](#)

**494.**

1305D

[Kuroni and the Celebration](#) · [Tutorial](#)

Quality: 5,365 global accepts · Rating: 1900 · first AC: 2020-03-03 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, dfs and similar, interactive, trees

[aropan's solution](#)

**495.**

1307D

[Cow and Fields](#) · [Tutorial](#)

Quality: 7,171 global accepts · Rating: 1900 · first AC: 2020-02-17 · C++17 (GCC 7-32) (first AC) · Tags: binary search, data structures, dfs and similar, graphs, greedy, shortest paths, sortings

[aropan's solution](#)

**496.**

1161B

[Chladni Figure](#) · [Tutorial](#)

Rating: 1900 · first AC: 2019-05-04 · C++17 (GCC 7-32) (first AC) · Tags: hashing, implementation, strings

[aropan's solution](#)

**497.**

1067A

[Array Without Local Maximums](#) · [Tutorial](#)

Quality: 3,133 global accepts · Rating: 1900 · first AC: 2018-10-24 · C++14 (GCC 6-32) (first AC) · Tags: dp

[aropan's solution](#)

**498.**

1054D

[Changing Array](#) · [Tutorial](#)

Quality: 2,415 global accepts · Rating: 1900 · first AC: 2018-10-18 · C++17 (GCC 7-32) (first AC) · Tags: greedy, implementation

[aropan's solution](#)

**499.**

1063C

[Dwarves, Hats and Extrasensory Abilities](#) · [Tutorial](#)

Quality: 3,280 global accepts · Rating: 1900 · first AC: 2018-10-14 · C++17 (GCC 7-32) (first AC) · Tags: binary search, constructive algorithms, geometry, interactive

[aropan's solution](#)

**500.**

914D

[Bash and a Tough Math Puzzle](#) · [Tutorial](#)

Quality: 6,385 global accepts · Rating: 1900 · first AC: 2018-01-20 · C++14 (GCC 6-32) (first AC) · Tags: data structures, number theory

[aropan's solution](#)

**501.**

866B

[Ordering Pizza](#) · [Tutorial](#)

Rating: 1900 · first AC: 2017-09-30 · C++14 (GCC 6-32) (first AC) · Tags: greedy, implementation, sortings

[aropan's solution](#)

**502.**

757C

[Felicity is Coming!](#) · [Tutorial](#)

Quality: 2,465 global accepts · Rating: 1900 · first AC: 2017-01-12 · GNU C++11 (first AC) · Tags: data structures, hashing, sortings, strings

[aropan's solution](#)

**503.**

622D

[Optimal Number Permutation](#) · [Tutorial](#)

Quality: 3,392 global accepts · Rating: 1900 · first AC: 2016-02-10 · GNU C++11 (first AC) · Tags: constructive algorithms

[aropan's solution](#)

**504.**

549D

[Haar Features](#) · [Tutorial](#)

Quality: 2,254 global accepts · Rating: 1900 · first AC: 2015-06-06 · GNU C++11 (first AC) · Tags: greedy, implementation

[aropan's solution](#)

**505.**

477B

[Dreamoon and Sets](#) · [Tutorial](#)

Rating: 1900 · first AC: 2014-10-12 · last AC: 2014-10-12 · GNU C++ (first AC) · Tags: math

[aropan's solution](#)

**506.**

452D

[Washer, Dryer, Folder](#) · [Tutorial](#)

Quality: 1,666 global accepts · Rating: 1900 · first AC: 2014-07-27 · GNU C++ (first AC) · Tags: greedy, implementation

[aropan's solution](#)

**507.**

388B

[Fox and Minimal path](#) · [Tutorial](#)

Quality: 2,603 global accepts · Rating: 1900 · first AC: 2014-02-03 · GNU C++ (first AC) · Tags: bitmasks, constructive algorithms, graphs, implementation, math

[aropan's solution](#)

**508.**

377B

[Preparing for the Contest](#) · [Tutorial](#)

Quality: 2,448 global accepts · Rating: 1900 · first AC: 2013-12-29 · GNU C++ (first AC) · Tags: binary search, data structures, greedy, sortings

[aropan's solution](#)

**509.**

372B

[Counting Rectangles is Fun](#) · [Tutorial](#)

Quality: 2,839 global accepts · Rating: 1900 · first AC: 2013-12-13 · GNU C++ (first AC) · Tags: brute force, divide and conquer, dp

[aropan's solution](#)

**510.**

356B

[Xenia and Hamming](#) · [Tutorial](#)

Quality: 2,088 global accepts · Rating: 1900 · first AC: 2013-10-15 · GNU C++ (first AC) · Tags: implementation, math

[aropan's solution](#)

**511.**

343C

[Read Time](#) · [Tutorial](#)

Quality: 3,212 global accepts · Rating: 1900 · first AC: 2013-09-14 · GNU C++ (first AC) · Tags: binary search, greedy, two pointers

[aropan's solution](#)

**512.**

308C

[Memory for Arrays](#) · [Tutorial](#)

Rating: 1900 · first AC: 2013-05-17 · GNU C++ (first AC) · Tags: —

[aropan's solution](#)

**513.**

292D

[Connected Components](#) · [Tutorial](#)

Quality: 2,770 global accepts · Rating: 1900 · first AC: 2013-04-15 · GNU C++ (first AC) · Tags: data structures, dfs and similar, dp, dsu

[aropan's solution](#)

**514.**

261B

[Maxim and Restaurant](#) · [Tutorial](#)

Quality: 1,612 global accepts · Rating: 1900 · first AC: 2013-01-13 · GNU C++ (first AC) · Tags: dp, math, probabilities

[aropan's solution](#)

**515.**

241G

[Challenging Balloons](#) · [Tutorial](#)

Quality: 564 global accepts · Rating: 1900 · first AC: 2012-11-01 · GNU C++ (first AC) · Tags: constructive algorithms

[aropan's solution](#)

**516.**

232B

[Table](#) · [Tutorial](#)

Quality: 1,679 global accepts · Rating: 1900 · first AC: 2012-10-11 · GNU C++ (first AC) · Tags: bitmasks, combinatorics, dp, math

[aropan's solution](#)

**517.**

226B

[Naughty Stone Piles](#) · [Tutorial](#)

Quality: 1,709 global accepts · Rating: 1900 · first AC: 2012-09-24 · GNU C++ (first AC) · Tags: greedy

[aropan's solution](#)

**518.**

213B

[Numbers](#) · [Tutorial](#)

Quality: 1,979 global accepts · Rating: 1900 · first AC: 2012-07-30 · GNU C++ (first AC) · Tags: combinatorics, dp  
[aropan's solution](#)

**519.**

208B

[Solitaire](#) · [Tutorial](#)

Quality: 1,498 global accepts · Rating: 1900 · first AC: 2012-07-23 · Python 2 (first AC) · Tags: dfs and similar, dp  
[aropan's solution](#)

**520.**

207B2

[Military Trainings](#) · [Tutorial](#)

Quality: 238 global accepts · Rating: 1900 · first AC: 2012-07-08 · GNU C++ (first AC) · Tags: —  
[aropan's solution](#)

**521.**

191C

[Fools and Roads](#) · [Tutorial](#)

Quality: 9,223 global accepts · Rating: 1900 · first AC: 2012-05-27 · GNU C++ (first AC) · Tags: data structures, dfs and similar, trees  
[aropan's solution](#)

**522.**

178E1

[The Beaver's Problem - 2](#) · [Tutorial](#)

Quality: 314 global accepts · Rating: 1900 · first AC: 2012-04-28 · GNU C++ (first AC) · Tags: —  
[aropan's solution](#)

**523.**

178D2

[Magic Squares](#) · [Tutorial](#)

Quality: 326 global accepts · Rating: 1900 · first AC: 2012-04-28 · GNU C++ (first AC) · Tags: —  
[aropan's solution](#)

**524.**

178C2

[Smart Beaver and Resolving Collisions](#) · [Tutorial](#)

Quality: 339 global accepts · Rating: 1900 · first AC: 2012-04-28 · GNU C++ (first AC) · Tags: —  
[aropan's solution](#)

**525.**

180D

[Name](#) · [Tutorial](#)

Quality: 812 global accepts · Rating: 1900 · first AC: 2012-04-22 · Python 2 (first AC) · Tags: greedy, strings  
[aropan's solution](#)

**526.**

173C

[Spiral Maximum](#) · [Tutorial](#)

Quality: 1,112 global accepts · Rating: 1900 · first AC: 2012-04-06 · GNU C++ (first AC) · Tags: brute force, dp  
[aropan's solution](#)

**527.**

158E

[Phone Talks](#) · [Tutorial](#)

Quality: 1,538 global accepts · Rating: 1900 · first AC: 2012-03-04 · GNU C++ (first AC) · Tags: \*special, dp, sortings  
[aropan's solution](#)

**528.**

144D

[Missile Silos](#) · [Tutorial](#)

Quality: 5,064 global accepts · Rating: 1900 · first AC: 2012-01-18 · GNU C++ (first AC) · Tags: data structures, dfs and similar, graphs, shortest paths  
[aropan's solution](#)

**529.**

138B

[Digits Permutations](#) · [Tutorial](#)

Quality: 1,110 global accepts · Rating: 1900 · first AC: 2011-12-24 · GNU C++ (first AC) · Tags: greedy

[aropan's solution](#)

**530.**

137D

[Palindromes](#) · [Tutorial](#)

Quality: 1,722 global accepts · Rating: 1900 · first AC: 2011-12-23 · GNU C++ (first AC) · Tags: dp, strings

[aropan's solution](#)

**531.**

135C

[Zero-One](#) · [Tutorial](#)

Quality: 1,448 global accepts · Rating: 1900 · first AC: 2011-12-14 · last AC: 2011-12-14 · GNU C++ (first AC) · Tags: constructive algorithms, games, greedy

[aropan's solution](#)

**532.**

126A

[Hot Bath](#) · [Tutorial](#)

Quality: 1,597 global accepts · Rating: 1900 · first AC: 2011-11-09 · GNU C++ (first AC) · Tags: binary search, brute force, math

[aropan's solution](#)

**533.**

121C

[Lucky Permutation](#) · [Tutorial](#)

Quality: 1,434 global accepts · Rating: 1900 · first AC: 2011-10-27 · GNU C++ (first AC) · Tags: brute force, combinatorics, number theory

[aropan's solution](#)

**534.**

120J

[Minimum Sum](#) · [Tutorial](#)

Quality: 1,024 global accepts · Rating: 1900 · first AC: 2011-10-18 · GNU C++ (first AC) · Tags: divide and conquer, geometry, sortings

[aropan's solution](#)

**535.**

111B

[Petya and Divisors](#) · [Tutorial](#)

Quality: 4,104 global accepts · Rating: 1900 · first AC: 2011-09-03 · GNU C++ (first AC) · Tags: binary search, data structures, number theory

[aropan's solution](#)

**536.**

103C

[Russian Roulette](#) · [Tutorial](#)

Quality: 1,049 global accepts · Rating: 1900 · first AC: 2011-08-19 · GNU C++ (first AC) · Tags: constructive algorithms, greedy

[aropan's solution](#)

**537.**

95C

[Volleyball](#) · [Tutorial](#)

Quality: 3,387 global accepts · Rating: 1900 · first AC: 2011-08-14 · GNU C++ (first AC) · Tags: shortest paths

[aropan's solution](#)

**538.**

93B

[End of Exams](#) · [Tutorial](#)

Quality: 988 global accepts · Rating: 1900 · first AC: 2011-06-30 · GNU C++ (first AC) · Tags: greedy

[aropan's solution](#)

**539.**

69D

[Dot](#) · [Tutorial](#)

Quality: 1,130 global accepts · Rating: 1900 · first AC: 2011-04-27 · GNU C++ (first AC) · Tags: dp, games

[aropan's solution](#)

**540.**

67D

[Optical Experiment](#) · [Tutorial](#)

Quality: 1,777 global accepts · Rating: 1900 · first AC: 2011-04-23 · GNU C++ (first AC) · Tags: binary search, data structures, dp  
[aropan's solution](#)

**541.**

61E

[Enemy is weak](#) · [Tutorial](#)

Quality: 15,176 global accepts · Rating: 1900 · first AC: 2011-02-22 · GNU C++ (first AC) · Tags: data structures, trees  
[aropan's solution](#)

**542.**

57C

[Array](#) · [Tutorial](#)

Quality: 4,007 global accepts · Rating: 1900 · first AC: 2011-01-25 · GNU C++ (first AC) · Tags: combinatorics, math  
[aropan's solution](#)

**543.**

45C

[Dancing Lessons](#) · [Tutorial](#)

Quality: 1,147 global accepts · Rating: 1900 · first AC: 2010-11-13 · GNU C++ (first AC) · Tags: data structures  
[aropan's solution](#)

**544.**

45D

[Event Dates](#) · [Tutorial](#)

Quality: 1,973 global accepts · Rating: 1900 · first AC: 2010-11-13 · GNU C++ (first AC) · Tags: greedy, meet-in-the-middle, sortings  
[aropan's solution](#)

**545.**

38D

[Vasya the Architect](#) · [Tutorial](#)

Quality: 1,075 global accepts · Rating: 1900 · first AC: 2010-10-30 · GNU C++ (first AC) · Tags: implementation  
[aropan's solution](#)

**546.**

25C

[Roads in Berland](#) · [Tutorial](#)

Quality: 8,076 global accepts · Rating: 1900 · first AC: 2010-08-02 · GNU C++ (first AC) · Tags: graphs, shortest paths  
[aropan's solution](#)

**547.**

25D

[Roads not only in Berland](#) · [Tutorial](#)

Quality: 15,577 global accepts · Rating: 1900 · first AC: 2010-08-02 · GNU C++ (first AC) · Tags: dsu, graphs, trees  
[aropan's solution](#)

**548.**

19B

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**655.**

308B

[Context Advertising](#) · [Tutorial](#)

Rating: 2100 · first AC: 2013-05-17 · GNU C++ (first AC) · Tags: —

[aropan's solution](#)

**656.**

269C

[Flawed Flow](#) · [Tutorial](#)

Quality: 1,818 global accepts · Rating: 2100 · first AC: 2013-02-01 · GNU C++ (first AC) · Tags: constructive algorithms, flows, graphs, greedy

[aropan's solution](#)

**657.**

229D

[Towers](#) · [Tutorial](#)

Quality: 2,619 global accepts · Rating: 2100 · first AC: 2012-10-01 · GNU C++ (first AC) · Tags: dp, greedy, two pointers

[aropan's solution](#)

**658.**

220C

[Little Elephant and Shifts](#) · [Tutorial](#)

Quality: 1,037 global accepts · Rating: 2100 · first AC: 2012-08-31 · GNU C++ (first AC) · Tags: data structures

[aropan's solution](#)

**659.**

163C

[Conveyor](#) · [Tutorial](#)

Quality: 611 global accepts · Rating: 2100 · first AC: 2012-03-25 · last AC: 2012-03-25 · GNU C++ (first AC) · Tags: sortings, two pointers

[aropan's solution](#)

**660.**

128B

[String](#) · [Tutorial](#)

Quality: 2,874 global accepts · Rating: 2100 · first AC: 2011-11-15 · GNU C++ (first AC) · Tags: brute force, constructive algorithms, hashing, implementation, string suffix structures, strings

[aropan's solution](#)

**661.**

111C

[Petya and Spiders](#) · [Tutorial](#)

Quality: 1,583 global accepts · Rating: 2100 · first AC: 2011-09-03 · GNU C++ (first AC) · Tags: bitmasks, dp, dsu

[aropan's solution](#)

**662.**

103D

[Time to Raid Cowavans](#) · [Tutorial](#)

Quality: 2,527 global accepts · Rating: 2100 · first AC: 2011-08-19 · GNU C++ (first AC) · Tags: brute force, data structures, sortings

[aropan's solution](#)

**663.**

56D

[Changing a String](#) · [Tutorial](#)

Quality: 2,095 global accepts · Rating: 2100 · first AC: 2011-04-27 · GNU C++ (first AC) · Tags: dp

[aropan's solution](#)

**664.**

74C

[Chessboard Billiard](#) · [Tutorial](#)

Quality: 1,412 global accepts · Rating: 2100 · first AC: 2011-04-15 · GNU C++ (first AC) · Tags: dfs and similar, dsu, graphs, number theory

[aropan's solution](#)

**665.**

76B

[Mice](#) · [Tutorial](#)

Quality: 801 global accepts · Rating: 2100 · first AC: 2011-04-12 · GNU C++ (first AC) · Tags: greedy, two pointers

[aropan's solution](#)

**666.**

65C

[Harry Potter and the Golden Snitch](#) · [Tutorial](#)

Quality: 869 global accepts · Rating: 2100 · first AC: 2011-03-05 · GNU C++ (first AC) · Tags: binary search, geometry

[aropan's solution](#)

**667.**

38F

[Smart Boy](#) · [Tutorial](#)

Quality: 446 global accepts · Rating: 2100 · first AC: 2010-10-30 · GNU C++ (first AC) · Tags: dp, games, strings

[aropan's solution](#)

**668.**

39C

[Moon Craters](#) · [Tutorial](#)

Quality: 697 global accepts · Rating: 2100 · first AC: 2010-10-24 · GNU C++ (first AC) · Tags: dp, sortings

[aropan's solution](#)

**669.**

1769D2

[A..3D000! CT2DôBCαC II](#)

Quality: 204 global accepts · Rating: 2200 · first AC: 2022-12-17 · last AC: 2022-12-17 · C++17 (GCC 7-32) (first AC) · Tags: \*special, brute force

[aropan's solution](#)

**670.**

1616E

[Lexicographically Small Enough](#) · [Tutorial](#)

Quality: 2,716 global accepts · Rating: 2200 · first AC: 2021-12-29 · C++17 (GCC 7-32) (first AC) · Tags: brute force, data structures, greedy, strings

[aropan's solution](#)

**671.**

1586E

[Moment of Bloom](#) · [Tutorial](#)

Rating: 2200 · first AC: 2021-10-17 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, dfs and similar, dsu, graph matchings, graphs, greedy, trees

[aropan's solution](#)

**672.**

1556E

[Equilibrium](#) · [Tutorial](#)

Quality: 2,989 global accepts · Rating: 2200 · first AC: 2021-08-29 · C++17 (GCC 7-32) (first AC) · Tags: data structures, dp, greedy

[aropan's solution](#)

**673.**

1515E

[Phoenix and Computers](#) · [Tutorial](#)

Quality: 4,477 global accepts · Rating: 2200 · first AC: 2021-05-02 · C++17 (GCC 7-32) (first AC) · Tags: combinatorics, dp, math

[aropan's solution](#)

**674.**

1470D

[Strange Housing](#) · [Tutorial](#)

Quality: 4,186 global accepts · Rating: 2200 · first AC: 2021-01-05 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, dfs and similar, graph matchings, graphs, greedy

[aropan's solution](#)

**675.**

1389E

[Calendar Ambiguity](#) · [Tutorial](#)

Quality: 3,724 global accepts · Rating: 2200 · first AC: 2020-07-29 · C++17 (GCC 7-32) (first AC) · Tags: math, number theory

[aropan's solution](#)

**676.**

1336C

[Kaavi and Magic Spell](#) · [Tutorial](#)

Quality: 4,085 global accepts · Rating: 2200 · first AC: 2020-04-15 · C++17 (GCC 7-32) (first AC) · Tags: dp, strings

[aropan's solution](#)

**677.**

1338C

[Perfect Triples](#) · [Tutorial](#)

Quality: 3,440 global accepts · Rating: 2200 · first AC: 2020-04-12 · C++17 (GCC 7-32) (first AC) · Tags: bitmasks, brute force, constructive algorithms, divide and conquer, math

[aropan's solution](#)

**678.**

1305E

[Kuroni and the Score Distribution](#) · [Tutorial](#)

Quality: 3,272 global accepts · Rating: 2200 · first AC: 2020-03-03 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, greedy,

implementation, math

[aropan's solution](#)

**679.**

1034B

[Little C Loves 3 II](#) · [Tutorial](#)

Quality: 2,290 global accepts · Rating: 2200 · first AC: 2018-09-21 · C++14 (GCC 6-32) (first AC) · Tags: brute force, constructive algorithms, flows, graph matchings

[aropan's solution](#)

**680.**

1039C

[Network Safety](#) · [Tutorial](#)

Quality: 1,492 global accepts · Rating: 2200 · first AC: 2018-09-05 · last AC: 2018-09-05 · C++17 (GCC 7-32) (first AC) · Tags: dfs and similar, dsu, graphs, math, sortings

[aropan's solution](#)

**681.**

1037E

[Trips](#) · [Tutorial](#)

Quality: 3,124 global accepts · Rating: 2200 · first AC: 2018-09-02 · C++17 (GCC 7-32) (first AC) · Tags: graphs

[aropan's solution](#)

**682.**

932D

[Tree](#) · [Tutorial](#)

Quality: 1,976 global accepts · Rating: 2200 · first AC: 2018-02-15 · C++14 (GCC 6-32) (first AC) · Tags: binary search, dp, trees

[aropan's solution](#)

**683.**

855E

[Salazar Slytherin's Locket](#) · [Tutorial](#)

Quality: 2,137 global accepts · Rating: 2200 · first AC: 2017-09-24 · C++14 (GCC 6-32) (first AC) · Tags: bitmasks, dp

[aropan's solution](#)

**684.**

860C

[Tests Renumeration](#) · [Tutorial](#)

Rating: 2200 · first AC: 2017-09-17 · C++14 (GCC 6-32) (first AC) · Tags: greedy

[aropan's solution](#)

**685.**

757D

[Felicity's Big Secret Revealed](#) · [Tutorial](#)

Quality: 1,547 global accepts · Rating: 2200 · first AC: 2017-01-12 · GNU C++11 (first AC) · Tags: bitmasks, dp

[aropan's solution](#)

**686.**

655E

[Intellectual Inquiry](#) · [Tutorial](#)

Rating: 2200 · first AC: 2016-03-18 · GNU C++11 (first AC) · Tags: dp, greedy, strings

[aropan's solution](#)

**687.**

627C

[Package Delivery](#) · [Tutorial](#)

Quality: 1,313 global accepts · Rating: 2200 · first AC: 2016-02-28 · GNU C++11 (first AC) · Tags: data structures, divide and conquer, greedy

[aropan's solution](#)

**688.**

622E

[Ants in Leaves](#) · [Tutorial](#)

Quality: 2,455 global accepts · Rating: 2200 · first AC: 2016-02-10 · GNU C++11 (first AC) · Tags: dfs and similar, greedy, sortings, trees

[aropan's solution](#)

**689.**

618D

[Hamiltonian Spanning Tree](#) · [Tutorial](#)

Quality: 1,897 global accepts · Rating: 2200 · first AC: 2016-01-29 · GNU C++11 (first AC) · Tags: dfs and similar, dp, graph matchings, greedy, trees

[aropan's solution](#)

**690.**

549C

[The Game Of Parity](#) · [Tutorial](#)

Quality: 1,827 global accepts · Rating: 2200 · first AC: 2015-06-06 · GNU C++11 (first AC) · Tags: games

[aropan's solution](#)

**691.**

549G

[Happy Line](#) · [Tutorial](#)

Quality: 2,655 global accepts · Rating: 2200 · first AC: 2015-06-06 · GNU C++11 (first AC) · Tags: constructive algorithms, greedy, sortings

[aropan's solution](#)

**692.**

538F

[A Heap of Heaps](#) · [Tutorial](#)

Quality: 1,861 global accepts · Rating: 2200 · first AC: 2015-04-26 · GNU C++ (first AC) · Tags: brute force, data structures, math, sortings

[aropan's solution](#)

**693.**

538E

[Demiurges Play Again](#) · [Tutorial](#)

Quality: 1,639 global accepts · Rating: 2200 · first AC: 2015-04-26 · GNU C++11 (first AC) · Tags: dfs and similar, dp, math, trees

[aropan's solution](#)

**694.**

526D

[Om Nom and Necklace](#) · [Tutorial](#)

Quality: 2,446 global accepts · Rating: 2200 · first AC: 2015-04-04 · GNU C++11 (first AC) · Tags: hashing, string suffix structures, strings

[aropan's solution](#)

**695.**

507D

[The Maths Lecture](#) · [Tutorial](#)

Quality: 2,125 global accepts · Rating: 2200 · first AC: 2015-01-25 · GNU C++ (first AC) · Tags: dp, implementation

[aropan's solution](#)

**696.**

461C

[Appleman and a Sheet of Paper](#) · [Tutorial](#)

Quality: 1,393 global accepts · Rating: 2200 · first AC: 2014-08-26 · GNU C++ (first AC) · Tags: data structures, implementation

[aropan's solution](#)

**697.**

403C

[Strictly Positive Matrix](#) · [Tutorial](#)

Rating: 2200 · first AC: 2014-03-16 · GNU C++ (first AC) · Tags: graphs, math

[aropan's solution](#)

**698.**

387E

[George and Cards](#) · [Tutorial](#)

Quality: 989 global accepts · Rating: 2200 · first AC: 2014-01-30 · GNU C++ (first AC) · Tags: binary search, data structures

[aropan's solution](#)

**699.**

387D

[George and Interesting Graph](#) · [Tutorial](#)

Quality: 1,169 global accepts · Rating: 2200 · first AC: 2014-01-30 · GNU C++ (first AC) · Tags: graph matchings

[aropan's solution](#)

**700.**

377C

[Captains Mode](#) · [Tutorial](#)

Quality: 1,258 global accepts · Rating: 2200 · first AC: 2013-12-30 · GNU C++ (first AC) · Tags: bitmasks, dp, games  
[aropan's solution](#)

**701.**

345D

[Chain Letter](#) · [Tutorial](#)

Quality: 83 global accepts · Rating: 2200 · first AC: 2013-09-13 · Ada (first AC) · Tags: \*special, dfs and similar, graphs  
[aropan's solution](#)

**702.**

338C

[Divisor Tree](#) · [Tutorial](#)

Rating: 2200 · first AC: 2013-08-16 · GNU C++ (first AC) · Tags: brute force, dp, number theory  
[aropan's solution](#)

**703.**

332C

[Students' Revenge](#) · [Tutorial](#)

Quality: 1,028 global accepts · Rating: 2200 · first AC: 2013-07-25 · Python 2 (first AC) · Tags: data structures, greedy, sortings  
[aropan's solution](#)

**704.**

243C

[Colorado Potato Beetle](#) · [Tutorial](#)

Quality: 563 global accepts · Rating: 2200 · first AC: 2012-11-16 · GNU C++ (first AC) · Tags: dfs and similar, implementation  
[aropan's solution](#)

**705.**

196C

[Paint Tree](#) · [Tutorial](#)

Quality: 1,042 global accepts · Rating: 2200 · first AC: 2012-06-12 · GNU C++ (first AC) · Tags: constructive algorithms, divide and conquer, geometry, sortings, trees  
[aropan's solution](#)

**706.**

191E

[Thwarting Demonstrations](#) · [Tutorial](#)

Quality: 959 global accepts · Rating: 2200 · first AC: 2012-05-27 · GNU C++ (first AC) · Tags: binary search, data structures, trees  
[aropan's solution](#)

**707.**

182A

[Battlefield](#) · [Tutorial](#)

Quality: 349 global accepts · Rating: 2200 · first AC: 2012-04-24 · GNU C++ (first AC) · Tags: geometry, graphs, implementation, shortest paths  
[aropan's solution](#)

**708.**

144E

[Competition](#) · [Tutorial](#)

Quality: 682 global accepts · Rating: 2200 · first AC: 2012-01-18 · GNU C++ (first AC) · Tags: data structures, greedy  
[aropan's solution](#)

**709.**

120I

[Luck is in Numbers](#) · [Tutorial](#)

Quality: 316 global accepts · Rating: 2200 · first AC: 2011-10-18 · GNU C++ (first AC) · Tags: greedy  
[aropan's solution](#)

**710.**

115C

[Plumber](#) · [Tutorial](#)

Quality: 677 global accepts · Rating: 2200 · first AC: 2011-09-15 · GNU C++ (first AC) · Tags: math  
[aropan's solution](#)

**711.**

113C

[Double Happiness](#) · [Tutorial](#)

Quality: 1,451 global accepts · Rating: 2200 · first AC: 2011-09-09 · GNU C++ (first AC) · Tags: brute force, math, number theory  
[aropan's solution](#)

**712.**

86B

[Tetris revisited](#) · [Tutorial](#)

Quality: 453 global accepts · Rating: 2200 · first AC: 2011-05-22 · GNU C++ (first AC) · Tags: constructive algorithms, graph matchings, greedy, math  
[aropan's solution](#)

**713.**

85C

[Petya and Tree](#) · [Tutorial](#)

Quality: 620 global accepts · Rating: 2200 · first AC: 2011-05-20 · GNU C++ (first AC) · Tags: binary search, dfs and similar, probabilities, sortings, trees  
[aropan's solution](#)

**714.**

76A

[Gift](#) · [Tutorial](#)

Quality: 2,263 global accepts · Rating: 2200 · first AC: 2011-04-12 · GNU C++ (first AC) · Tags: dsu, graphs, sortings, trees  
[aropan's solution](#)

**715.**

70C

[Lucky Tickets](#) · [Tutorial](#)

Quality: 632 global accepts · Rating: 2200 · first AC: 2011-03-26 · GNU C++ (first AC) · Tags: binary search, data structures, sortings, two pointers  
[aropan's solution](#)

**716.**

65D

[Harry Potter and the Sorting Hat](#) · [Tutorial](#)

Quality: 480 global accepts · Rating: 2200 · first AC: 2011-03-05 · GNU C++ (first AC) · Tags: brute force, dfs and similar, hashing  
[aropan's solution](#)

**717.**

45G

[Prime Problem](#) · [Tutorial](#)

Quality: 1,221 global accepts · Rating: 2200 · first AC: 2010-11-13 · GNU C++ (first AC) · Tags: number theory  
[aropan's solution](#)

**718.**

25E

[Test](#) · [Tutorial](#)

Quality: 3,158 global accepts · Rating: 2200 · first AC: 2010-08-02 · GNU C++ (first AC) · Tags: hashing, strings  
[aropan's solution](#)

**719.**

19C

[Deletion of Repeats](#) · [Tutorial](#)

Quality: 1,325 global accepts · Rating: 2200 · first AC: 2010-06-24 · GNU C++ (first AC) · Tags: greedy, hashing, string suffix structures  
[aropan's solution](#)

**720.**

1769D3

[A..3D00alCT2DôBCαC III](#)

Quality: 124 global accepts · Rating: 2300 · first AC: 2022-12-17 · C++17 (GCC 7-32) (first AC) · Tags: \*special, brute force  
[aropan's solution](#)

**721.**

1610E

[AmShZ and G.O.A.T.](#) · [Tutorial](#)

Quality: 1,923 global accepts · Rating: 2300 · first AC: 2021-11-23 · C++17 (GCC 7-32) (first AC) · Tags: binary search, brute force, greedy, implementation, math

[aropan's solution](#)

## 722.

1422D

[Returning Home](#) · [Tutorial](#)

Quality: 3,191 global accepts · Rating: 2300 · first AC: 2020-10-06 · C++17 (GCC 7-32) (first AC) · Tags: graphs, shortest paths, sortings

[aropan's solution](#)

## 723.

1408F

[Two Different](#) · [Tutorial](#)

Quality: 2,681 global accepts · Rating: 2300 · first AC: 2020-09-30 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, divide and conquer

[aropan's solution](#)

## 724.

1371E2

[Asterism \(Hard Version\)](#) · [Tutorial](#)

Quality: 2,513 global accepts · Rating: 2300 · first AC: 2020-07-01 · C++17 (GCC 7-32) (first AC) · Tags: binary search, combinatorics, dp, math, number theory, sortings

[aropan's solution](#)

## 725.

1314D

[Tourism](#) · [Tutorial](#)

Rating: 2300 · first AC: 2020-02-23 · C++17 (GCC 7-32) (first AC) · Tags: brute force, dp, graphs, probabilities

[aropan's solution](#)

## 726.

1254C

[Point Ordering](#) · [Tutorial](#)

Quality: 1,596 global accepts · Rating: 2300 · first AC: 2019-11-19 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, geometry, interactive, math

[aropan's solution](#)

## 727.

1039A

[Timetable](#) · [Tutorial](#)

Quality: 861 global accepts · Rating: 2300 · first AC: 2018-09-05 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, data structures, greedy, math

[aropan's solution](#)

## 728.

860D

[Wizard's Tour](#) · [Tutorial](#)

Rating: 2300 · first AC: 2017-09-17 · C++14 (GCC 6-32) (first AC) · Tags: dfs and similar, graphs, greedy

[aropan's solution](#)

## 729.

623B

[Array GCD](#) · [Tutorial](#)

Quality: 2,370 global accepts · Rating: 2300 · first AC: 2016-02-04 · GNU C++11 (first AC) · Tags: dp, greedy, number theory

[aropan's solution](#)

## 730.

585D

[Lizard Era: Beginning](#) · [Tutorial](#)

Quality: 2,039 global accepts · Rating: 2300 · first AC: 2015-10-12 · GNU C++11 (first AC) · Tags: meet-in-the-middle

[aropan's solution](#)

## 731.

549B

[Lookery Party](#) · [Tutorial](#)

Quality: 1,586 global accepts · Rating: 2300 · first AC: 2015-06-06 · GNU C++11 (first AC) · Tags: constructive algorithms, dfs and similar,

graphs, greedy

[aropan's solution](#)

**732.**

543D

[Road Improvement](#) · [Tutorial](#)

Quality: 3,255 global accepts · Rating: 2300 · first AC: 2015-05-07 · GNU C++11 (first AC) · Tags: dp, trees

[aropan's solution](#)

**733.**

516C

[Brazil and Park](#) · [Tutorial](#)

Rating: 2300 · first AC: 2015-02-17 · GNU C++0x (first AC) · Tags: data structures

[aropan's solution](#)

**734.**

207D8

[The Beaver's Problem - 3](#) · [Tutorial](#)

Quality: 100 global accepts · Rating: 2300 · first AC: 2012-07-08 · GNU C++ (first AC) · Tags: —

[aropan's solution](#)

**735.**

203E

[Transportation](#) · [Tutorial](#)

Quality: 309 global accepts · Rating: 2300 · first AC: 2012-07-03 · GNU C++ (first AC) · Tags: greedy, sortings, two pointers

[aropan's solution](#)

**736.**

142C

[Help Caretaker](#) · [Tutorial](#)

Quality: 997 global accepts · Rating: 2300 · first AC: 2012-01-12 · GNU C++ (first AC) · Tags: brute force, dp

[aropan's solution](#)

**737.**

141E

[Clearing Up](#) · [Tutorial](#)

Quality: 1,366 global accepts · Rating: 2300 · first AC: 2012-01-08 · GNU C++ (first AC) · Tags: constructive algorithms, dp, dsu, graphs

[aropan's solution](#)

**738.**

141D

[Take-off Ramps](#) · [Tutorial](#)

Quality: 1,212 global accepts · Rating: 2300 · first AC: 2012-01-08 · GNU C++ (first AC) · Tags: graphs, shortest paths

[aropan's solution](#)

**739.**

126D

[Fibonacci Sums](#) · [Tutorial](#)

Quality: 946 global accepts · Rating: 2300 · first AC: 2011-11-09 · GNU C++ (first AC) · Tags: dp, math

[aropan's solution](#)

**740.**

123D

[String](#) · [Tutorial](#)

Quality: 1,431 global accepts · Rating: 2300 · first AC: 2011-11-05 · GNU C++ (first AC) · Tags: string suffix structures

[aropan's solution](#)

**741.**

123C

[Brackets](#) · [Tutorial](#)

Quality: 721 global accepts · Rating: 2300 · first AC: 2011-11-05 · GNU C++ (first AC) · Tags: combinatorics, dp, greedy

[aropan's solution](#)

**742.**

101D

[Castle](#) · [Tutorial](#)

Quality: 790 global accepts · Rating: 2300 · first AC: 2011-08-15 · GNU C++ (first AC) · Tags: dp, greedy, probabilities, sortings, trees

[aropan's solution](#)

**743.**

85D

[Sum of Medians](#) · [Tutorial](#)

Quality: 2,419 global accepts · Rating: 2300 · first AC: 2011-05-20 · GNU C++ (first AC) · Tags: binary search, brute force, data structures, implementation

[aropan's solution](#)

**744.**

78D

[Archer's Shot](#) · [Tutorial](#)

Quality: 373 global accepts · Rating: 2300 · first AC: 2011-04-27 · GNU C++ (first AC) · Tags: binary search, geometry, math, two pointers

[aropan's solution](#)

**745.**

76F

[Tourist](#) · [Tutorial](#)

Quality: 771 global accepts · Rating: 2300 · first AC: 2011-04-23 · GNU C++ (first AC) · Tags: binary search, data structures, dp

[aropan's solution](#)

**746.**

77D

[Domino Carpet](#) · [Tutorial](#)

Quality: 363 global accepts · Rating: 2300 · first AC: 2011-04-19 · GNU C++ (first AC) · Tags: dp, implementation

[aropan's solution](#)

**747.**

64H

[Table Bowling](#) · [Tutorial](#)

Quality: 122 global accepts · Rating: 2300 · first AC: 2011-02-21 · Tcl (first AC) · Tags: \*special, sortings

[aropan's solution](#)

**748.**

49E

[Common ancestor](#) · [Tutorial](#)

Quality: 798 global accepts · Rating: 2300 · first AC: 2010-12-17 · GNU C++ (first AC) · Tags: dp

[aropan's solution](#)

**749.**

44I

[Toys](#) · [Tutorial](#)

Quality: 231 global accepts · Rating: 2300 · first AC: 2010-11-06 · GNU C++ (first AC) · Tags: brute force, combinatorics

[aropan's solution](#)

**750.**

24E

[Berland collider](#) · [Tutorial](#)

Quality: 1,025 global accepts · Rating: 2300 · first AC: 2010-07-26 · GNU C++ (first AC) · Tags: binary search

[aropan's solution](#)

**751.**

1370F1

[The Hidden Pair \(Easy Version\)](#) · [Tutorial](#)

Quality: 1,784 global accepts · Rating: 2400 · first AC: 2020-06-20 · C++17 (GCC 7-32) (first AC) · Tags: binary search, dfs and similar, graphs, interactive, shortest paths, trees

[aropan's solution](#)

**752.**

1358E

[Are You Fired?](#) · [Tutorial](#)

Quality: 2,451 global accepts · Rating: 2400 · first AC: 2020-05-26 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, data structures, greedy, implementation

[aropan's solution](#)

**753.**

1340C

[Nastya and Unexpected Guest](#) · [Tutorial](#)

Quality: 2,416 global accepts · Rating: 2400 · first AC: 2020-04-23 · C++17 (GCC 7-32) (first AC) · Tags: dfs and similar, dp, graphs, shortest paths

[aropan's solution](#)

**754.**

1161D

[Palindrome XOR](#) · [Tutorial](#)

Rating: 2400 · first AC: 2019-05-04 · C++17 (GCC 7-32) (first AC) · Tags: graphs, implementation

[aropan's solution](#)

**755.**

1083E

[The Fair Nut and Rectangles](#) · [Tutorial](#)

Quality: 5,614 global accepts · Rating: 2400 · first AC: 2018-12-10 · C++14 (GCC 6-32) (first AC) · Tags: data structures, dp, geometry

[aropan's solution](#)

**756.**

866C

[Gotta Go Fast](#) · [Tutorial](#)

Rating: 2400 · first AC: 2017-09-30 · C++14 (GCC 6-32) (first AC) · Tags: binary search, dp, probabilities

[aropan's solution](#)

**757.**

626F

[Group Projects](#) · [Tutorial](#)

Quality: 3,592 global accepts · Rating: 2400 · first AC: 2016-02-13 · GNU C++11 (first AC) · Tags: dp

[aropan's solution](#)

**758.**

585C

[Alice, Bob, Oranges and Apples](#) · [Tutorial](#)

Quality: 1,065 global accepts · Rating: 2400 · first AC: 2015-10-12 · GNU C++11 (first AC) · Tags: number theory

[aropan's solution](#)

**759.**

526E

[Transmitting Levels](#) · [Tutorial](#)

Quality: 1,180 global accepts · Rating: 2400 · first AC: 2015-04-04 · GNU C++11 (first AC) · Tags: dp, implementation

[aropan's solution](#)

**760.**

513D1

[Constrained Tree](#) · [Tutorial](#)

Quality: 648 global accepts · Rating: 2400 · first AC: 2015-02-07 · last AC: 2015-02-07 · GNU C++ (first AC) · Tags: dfs and similar

[aropan's solution](#)

**761.**

380B

[Sereja and Tree](#) · [Tutorial](#)

Quality: 575 global accepts · Rating: 2400 · first AC: 2014-01-12 · GNU C++ (first AC) · Tags: graphs, implementation

[aropan's solution](#)

**762.**

379F

[New Year Tree](#) · [Tutorial](#)

Quality: 2,754 global accepts · Rating: 2400 · first AC: 2014-01-02 · GNU C++ (first AC) · Tags: data structures, divide and conquer, trees

[aropan's solution](#)

**763.**

377D

[Developing Game](#) · [Tutorial](#)

Quality: 1,339 global accepts · Rating: 2400 · first AC: 2013-12-29 · GNU C++ (first AC) · Tags: data structures

[aropan's solution](#)

**764.**

354B

[Game with Strings](#) · [Tutorial](#)

Quality: 503 global accepts · Rating: 2400 · first AC: 2013-10-13 · GNU C++ (first AC) · Tags: bitmasks, dp, games  
[aropan's solution](#)

**765.**

332D

[Theft of Blueprints](#) · [Tutorial](#)

Quality: 417 global accepts · Rating: 2400 · first AC: 2013-07-24 · GNU C++ (first AC) · Tags: graphs, math  
[aropan's solution](#)

**766.**

303C

[Minimum Modular](#) · [Tutorial](#)

Quality: 967 global accepts · Rating: 2400 · first AC: 2013-05-12 · GNU C++ (first AC) · Tags: brute force, graphs, math, number theory  
[aropan's solution](#)

**767.**

277C

[Game](#) · [Tutorial](#)

Quality: 491 global accepts · Rating: 2400 · first AC: 2013-02-28 · GNU C++ (first AC) · Tags: games, implementation  
[aropan's solution](#)

**768.**

226C

[Anniversary](#) · [Tutorial](#)

Quality: 1,017 global accepts · Rating: 2400 · first AC: 2012-09-24 · GNU C++ (first AC) · Tags: data structures, implementation, math, matrices, number theory  
[aropan's solution](#)

**769.**

220E

[Little Elephant and Inversions](#) · [Tutorial](#)

Quality: 1,716 global accepts · Rating: 2400 · first AC: 2012-09-01 · GNU C++ (first AC) · Tags: data structures, two pointers  
[aropan's solution](#)

**770.**

198C

[Delivering Carcinogen](#) · [Tutorial](#)

Quality: 428 global accepts · Rating: 2400 · first AC: 2012-06-22 · GNU C++ (first AC) · Tags: binary search, geometry  
[aropan's solution](#)

**771.**

193C

[Hamming Distance](#) · [Tutorial](#)

Quality: 616 global accepts · Rating: 2400 · first AC: 2012-06-03 · GNU C++ (first AC) · Tags: constructive algorithms, greedy, math, matrices  
[aropan's solution](#)

**772.**

161C

[Abracadabra](#) · [Tutorial](#)

Quality: 693 global accepts · Rating: 2400 · first AC: 2012-03-11 · GNU C++ (first AC) · Tags: divide and conquer  
[aropan's solution](#)

**773.**

107D

[Crime Management](#) · [Tutorial](#)

Quality: 487 global accepts · Rating: 2400 · first AC: 2011-08-24 · last AC: 2011-08-24 · GNU C++ (first AC) · Tags: dp, graphs, matrices  
[aropan's solution](#)

**774.**

107C

[Arrangement](#) · [Tutorial](#)

Quality: 460 global accepts · Rating: 2400 · first AC: 2011-08-24 · GNU C++ (first AC) · Tags: bitmasks, dp  
[aropan's solution](#)

**775.**

83C

[Track](#) · [Tutorial](#)

Quality: 476 global accepts · Rating: 2400 · first AC: 2011-05-13 · GNU C++ (first AC) · Tags: graphs, greedy, shortest paths  
[aropan's solution](#)

**776.**

73E

[Morrowindows](#) · [Tutorial](#)

Quality: 412 global accepts · Rating: 2400 · first AC: 2011-04-10 · GNU C++ (first AC) · Tags: math, number theory  
[aropan's solution](#)

**777.**

39G

[Inverse Function](#) · [Tutorial](#)

Quality: 160 global accepts · Rating: 2400 · first AC: 2010-10-25 · Python 2 (first AC) · Tags: implementation  
[aropan's solution](#)

**778.**

1556F

[Sports Betting](#) · [Tutorial](#)

Quality: 1,420 global accepts · Rating: 2500 · first AC: 2021-08-29 · C++17 (GCC 7-32) (first AC) · Tags: bitmasks, combinatorics, dp, graphs, math, probabilities  
[aropan's solution](#)

**779.**

1470C

[Strange Shuffle](#) · [Tutorial](#)

Quality: 1,439 global accepts · Rating: 2500 · first AC: 2021-01-05 · last AC: 2021-01-05 · C++17 (GCC 7-32) (first AC) · Tags: binary search, brute force, constructive algorithms, interactive  
[aropan's solution](#)

**780.**

1427E

[Xum](#) · [Tutorial](#)

Quality: 1,632 global accepts · Rating: 2500 · first AC: 2020-10-10 · C++17 (GCC 7-32) (first AC) · Tags: bitmasks, constructive algorithms, math, matrices, number theory  
[aropan's solution](#)

**781.**

1381C

[Mastermind](#) · [Tutorial](#)

Quality: 1,710 global accepts · Rating: 2500 · first AC: 2020-07-21 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, graph matchings, greedy, implementation, sortings, two pointers  
[aropan's solution](#)

**782.**

1375E

[Inversion SwapSort](#) · [Tutorial](#)

Quality: 3,371 global accepts · Rating: 2500 · first AC: 2020-07-05 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, greedy, sortings  
[aropan's solution](#)

**783.**

1361C

[Johnny and Megan's Necklace](#) · [Tutorial](#)

Quality: 1,836 global accepts · Rating: 2500 · first AC: 2020-06-04 · C++17 (GCC 7-32) (first AC) · Tags: binary search, bitmasks, constructive algorithms, dfs and similar, dsu, graphs  
[aropan's solution](#)

**784.**

1314B

[Double Elimination](#) · [Tutorial](#)

Rating: 2500 · first AC: 2020-02-23 · last AC: 2020-04-22 · C++17 (GCC 7-32) (first AC) · Tags: dp, implementation  
[aropan's solution](#)

**785.**

1307E

[Cow and Treats](#) · [Tutorial](#)

Quality: 1,365 global accepts · Rating: 2500 · first AC: 2020-02-17 · C++17 (GCC 7-32) (first AC) · Tags: binary search, combinatorics, dp, greedy, implementation, math

[aropan's solution](#)

**786.**

1188C

[Array Beauty](#) · [Tutorial](#)

Quality: 2,133 global accepts · Rating: 2500 · first AC: 2019-07-05 · C++17 (GCC 7-32) (first AC) · Tags: dp

[aropan's solution](#)

**787.**

1053C

[Putting Boxes Together](#) · [Tutorial](#)

Rating: 2500 · first AC: 2018-09-24 · C++17 (GCC 7-32) (first AC) · Tags: binary search, data structures

[aropan's solution](#)

**788.**

1037F

[Maximum Reduction](#) · [Tutorial](#)

Quality: 1,272 global accepts · Rating: 2500 · first AC: 2018-09-02 · C++17 (GCC 7-32) (first AC) · Tags: combinatorics, data structures, math

[aropan's solution](#)

**789.**

855D

[Rowena Ravenclaw's Diadem](#) · [Tutorial](#)

Quality: 583 global accepts · Rating: 2500 · first AC: 2017-09-24 · C++14 (GCC 6-32) (first AC) · Tags: trees

[aropan's solution](#)

**790.**

655F

[Cowslip Collections](#) · [Tutorial](#)

Rating: 2500 · first AC: 2016-03-18 · GNU C++11 (first AC) · Tags: combinatorics, number theory

[aropan's solution](#)

**791.**

618E

[Robot Arm](#) · [Tutorial](#)

Quality: 696 global accepts · Rating: 2500 · first AC: 2016-01-29 · GNU C++11 (first AC) · Tags: data structures, geometry

[aropan's solution](#)

**792.**

611F

[New Year and Cleaning](#) · [Tutorial](#)

Quality: 522 global accepts · Rating: 2500 · first AC: 2015-12-30 · GNU C++11 (first AC) · Tags: binary search, implementation

[aropan's solution](#)

**793.**

543C

[Remembering Strings](#) · [Tutorial](#)

Quality: 1,555 global accepts · Rating: 2500 · first AC: 2015-05-07 · last AC: 2015-05-07 · GNU C++11 (first AC) · Tags: bitmasks, dp

[aropan's solution](#)

**794.**

468C

[Hack it!](#) · [Tutorial](#)

Quality: 2,739 global accepts · Rating: 2500 · first AC: 2014-09-20 · GNU C++ (first AC) · Tags: binary search, constructive algorithms, math

[aropan's solution](#)

**795.**

380D

[Sereja and Cinema](#) · [Tutorial](#)

Quality: 522 global accepts · Rating: 2500 · first AC: 2014-01-15 · GNU C++ (first AC) · Tags: combinatorics, math

[aropan's solution](#)

**796.**

379E

[New Year Tree Decorations](#) · [Tutorial](#)

Quality: 379 global accepts · Rating: 2500 · first AC: 2014-01-02 · GNU C++ (first AC) · Tags: geometry, schedules, sortings  
[aropan's solution](#)

**797.**

173D

[Deputies](#) · [Tutorial](#)

Quality: 289 global accepts · Rating: 2500 · first AC: 2012-04-06 · GNU C++ (first AC) · Tags: constructive algorithms, graphs, greedy, implementation  
[aropan's solution](#)

**798.**

161E

[Polycarpus the Safecracker](#) · [Tutorial](#)

Quality: 507 global accepts · Rating: 2500 · first AC: 2012-03-11 · GNU C++ (first AC) · Tags: brute force, dp  
[aropan's solution](#)

**799.**

135D

[Cycle](#) · [Tutorial](#)

Quality: 314 global accepts · Rating: 2500 · first AC: 2011-12-14 · GNU C++ (first AC) · Tags: brute force, dfs and similar, implementation  
[aropan's solution](#)

**800.**

123E

[Maze](#) · [Tutorial](#)

Quality: 803 global accepts · Rating: 2500 · first AC: 2011-11-05 · GNU C++ (first AC) · Tags: dfs and similar, dp, probabilities, trees  
[aropan's solution](#)

**801.**

121D

[Lucky Segments](#) · [Tutorial](#)

Quality: 329 global accepts · Rating: 2500 · first AC: 2011-10-27 · GNU C++ (first AC) · Tags: binary search, implementation, two pointers  
[aropan's solution](#)

**802.**

101E

[Candies and Stones](#) · [Tutorial](#)

Quality: 604 global accepts · Rating: 2500 · first AC: 2011-08-15 · GNU C++ (first AC) · Tags: divide and conquer, dp  
[aropan's solution](#)

**803.**

98C

[Help Greg the Dwarf](#) · [Tutorial](#)

Quality: 347 global accepts · Rating: 2500 · first AC: 2011-08-15 · GNU C++ (first AC) · Tags: geometry, ternary search  
[aropan's solution](#)

**804.**

95E

[Lucky Country](#) · [Tutorial](#)

Quality: 1,903 global accepts · Rating: 2500 · first AC: 2011-08-14 · GNU C++ (first AC) · Tags: dp, dsu, graphs  
[aropan's solution](#)

**805.**

93C

[Azembler](#) · [Tutorial](#)

Quality: 450 global accepts · Rating: 2500 · first AC: 2011-06-30 · GNU C++ (first AC) · Tags: brute force, implementation  
[aropan's solution](#)

**806.**

86C

[Genetic engineering](#) · [Tutorial](#)

Quality: 864 global accepts · Rating: 2500 · first AC: 2011-05-22 · GNU C++ (first AC) · Tags: dp, string suffix structures, trees  
[aropan's solution](#)

**807.**

68D

[Half-decay tree](#) · [Tutorial](#)

Quality: 531 global accepts · Rating: 2500 · first AC: 2011-04-23 · GNU C++ (first AC) · Tags: data structures, divide and conquer, dp, math, probabilities

[aropan's solution](#)

**808.**

1515F

[Phoenix and Earthquake](#) · [Tutorial](#)

Quality: 2,076 global accepts · Rating: 2600 · first AC: 2021-05-02 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, dfs and similar, dsu, graphs, greedy, trees

[aropan's solution](#)

**809.**

1446D1

[Frequency Problem \(Easy Version\)](#) · [Tutorial](#)

Quality: 2,104 global accepts · Rating: 2600 · first AC: 2020-11-15 · C++17 (GCC 7-32) (first AC) · Tags: data structures, greedy

[aropan's solution](#)

**810.**

1375F

[Integer Game](#) · [Tutorial](#)

Quality: 2,510 global accepts · Rating: 2600 · first AC: 2020-07-04 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, games, interactive, math

[aropan's solution](#)

**811.**

1363F

[Rotating Substrings](#) · [Tutorial](#)

Quality: 1,736 global accepts · Rating: 2600 · first AC: 2020-05-31 · C++17 (GCC 7-32) (first AC) · Tags: dp, strings

[aropan's solution](#)

**812.**

1344C

[Quantifier Question](#) · [Tutorial](#)

Quality: 1,980 global accepts · Rating: 2600 · first AC: 2020-05-07 · C++17 (GCC 7-32) (first AC) · Tags: dfs and similar, dp, graphs, math

[aropan's solution](#)

**813.**

1340D

[Nastya and Time Machine](#) · [Tutorial](#)

Quality: 1,071 global accepts · Rating: 2600 · first AC: 2020-04-23 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, dfs and similar, graphs, trees

[aropan's solution](#)

**814.**

1063D

[Candies for Children](#) · [Tutorial](#)

Quality: 472 global accepts · Rating: 2600 · first AC: 2018-10-14 · C++17 (GCC 7-32) (first AC) · Tags: brute force, math

[aropan's solution](#)

**815.**

755F

[PolandBall and Gifts](#) · [Tutorial](#)

Quality: 1,863 global accepts · Rating: 2600 · first AC: 2017-01-15 · GNU C++11 (first AC) · Tags: bitmasks, dp, greedy

[aropan's solution](#)

**816.**

513D2

[Constrained Tree](#) · [Tutorial](#)

Quality: 398 global accepts · Rating: 2600 · first AC: 2015-02-07 · GNU C++0x (first AC) · Tags: constructive algorithms, data structures

[aropan's solution](#)

**817.**

380E

[Sereja and Dividing](#) · [Tutorial](#)

Quality: 351 global accepts · Rating: 2600 · first AC: 2014-01-15 · GNU C++ (first AC) · Tags: data structures  
[aropan's solution](#)

**818.**

338E

[Optimize!](#) · [Tutorial](#)

Quality: 1,186 global accepts · Rating: 2600 · first AC: 2013-08-16 · GNU C++ (first AC) · Tags: data structures  
[aropan's solution](#)

**819.**

325C

[Monsters and Diamonds](#) · [Tutorial](#)

Quality: 449 global accepts · Rating: 2600 · first AC: 2013-07-13 · GNU C++ (first AC) · Tags: dfs and similar, graphs, shortest paths  
[aropan's solution](#)

**820.**

196E

[Opening Portals](#) · [Tutorial](#)

Quality: 1,204 global accepts · Rating: 2600 · first AC: 2012-06-12 · GNU C++ (first AC) · Tags: dsu, graphs, shortest paths  
[aropan's solution](#)

**821.**

142D

[Help Shrek and Donkey 2](#) · [Tutorial](#)

Quality: 403 global accepts · Rating: 2600 · first AC: 2012-01-12 · GNU C++ (first AC) · Tags: games  
[aropan's solution](#)

**822.**

93E

[Lostborn](#) · [Tutorial](#)

Quality: 540 global accepts · Rating: 2600 · first AC: 2011-06-30 · GNU C++ (first AC) · Tags: dp, math, number theory  
[aropan's solution](#)

**823.**

85E

[Guard Towers](#) · [Tutorial](#)

Quality: 1,102 global accepts · Rating: 2600 · first AC: 2011-05-23 · GNU C++ (first AC) · Tags: binary search, dsu, geometry, graphs, sortings  
[aropan's solution](#)

**824.**

67C

[Sequence of Balls](#) · [Tutorial](#)

Quality: 745 global accepts · Rating: 2600 · first AC: 2011-03-14 · GNU C++ (first AC) · Tags: dp  
[aropan's solution](#)

**825.**

1422F

[Boring Queries](#) · [Tutorial](#)

Quality: 1,272 global accepts · Rating: 2700 · first AC: 2020-10-06 · C++17 (GCC 7-32) (first AC) · Tags: data structures, math, number theory  
[aropan's solution](#)

**826.**

1422E

[Minlexes](#) · [Tutorial](#)

Quality: 855 global accepts · Rating: 2700 · first AC: 2020-10-06 · C++17 (GCC 7-32) (first AC) · Tags: dp, greedy, implementation, strings  
[aropan's solution](#)

**827.**

1369F

[BareLee](#) · [Tutorial](#)

Quality: 716 global accepts · Rating: 2700 · first AC: 2020-06-26 · C++17 (GCC 9-64) (first AC) · Tags: dfs and similar, dp, games  
[aropan's solution](#)

**828.**

1370F2

[The Hidden Pair \(Hard Version\)](#) · [Tutorial](#)

Quality: 1,669 global accepts · Rating: 2700 · first AC: 2020-06-20 · last AC: 2020-06-20 · C++17 (GCC 7-32) (first AC) · Tags: binary search, dfs and similar, graphs, interactive, shortest paths, trees

[aropan's solution](#)

**829.**

1364E

[X-OR](#) · [Tutorial](#)

Quality: 1,551 global accepts · Rating: 2700 · first AC: 2020-06-13 · last AC: 2020-06-14 · C++17 (GCC 7-32) (first AC) · Tags: bitmasks, constructive algorithms, divide and conquer, interactive, probabilities

[aropan's solution](#)

**830.**

1366F

[Jog Around The Graph](#) · [Tutorial](#)

Quality: 895 global accepts · Rating: 2700 · first AC: 2020-06-11 · C++17 (GCC 7-32) (first AC) · Tags: binary search, dp, geometry, graphs

[aropan's solution](#)

**831.**

1358F

[Tasty Cookie](#) · [Tutorial](#)

Quality: 502 global accepts · Rating: 2700 · first AC: 2020-05-26 · C++17 (GCC 7-32) (first AC) · Tags: binary search, constructive algorithms, greedy, implementation

[aropan's solution](#)

**832.**

1054F

[Electric Scheme](#) · [Tutorial](#)

Quality: 387 global accepts · Rating: 2700 · first AC: 2018-10-18 · C++17 (GCC 7-32) (first AC) · Tags: flows, graph matchings

[aropan's solution](#)

**833.**

477D

[Dreamoon and Binary](#) · [Tutorial](#)

Quality: 593 global accepts · Rating: 2700 · first AC: 2014-10-12 · GNU C++ (first AC) · Tags: dp, strings

[aropan's solution](#)

**834.**

293B

[Distinct Paths](#) · [Tutorial](#)

Quality: 941 global accepts · Rating: 2700 · first AC: 2013-04-22 · GNU C++ (first AC) · Tags: brute force, combinatorics

[aropan's solution](#)

**835.**

62E

[World Evil](#) · [Tutorial](#)

Quality: 282 global accepts · Rating: 2700 · first AC: 2011-04-28 · GNU C++ (first AC) · Tags: dp, flows

[aropan's solution](#)

**836.**

76C

[Mutation](#) · [Tutorial](#)

Quality: 369 global accepts · Rating: 2700 · first AC: 2011-04-23 · last AC: 2011-04-23 · GNU C++ (first AC) · Tags: bitmasks, dp, math

[aropan's solution](#)

**837.**

1609F

[Interesting Sections](#) · [Tutorial](#)

Quality: 960 global accepts · Rating: 2800 · first AC: 2021-11-28 · C++17 (GCC 7-32) (first AC) · Tags: data structures, divide and conquer, meet-in-the-middle, two pointers

[aropan's solution](#)

**838.**

1371F

[Raging Thunder](#) · [Tutorial](#)

Quality: 691 global accepts · Rating: 2800 · first AC: 2020-07-01 · C++17 (GCC 7-32) (first AC) · Tags: data structures, divide and conquer, implementation

[aropan's solution](#)

**839.**

1361E

[James and the Chase](#) · [Tutorial](#)

Quality: 987 global accepts · Rating: 3000 · first AC: 2020-06-11 · C++17 (GCC 7-32) (first AC) · Tags: dfs and similar, graphs, probabilities, trees

[aropan's solution](#)

**840.**

1340E

[Nastya and Bees](#) · [Tutorial](#)

Rating: 3000 · first AC: 2020-04-23 · last AC: 2020-04-24 · C++17 (GCC 7-32) (first AC) · Tags: \*broken, graphs, interactive, probabilities

[aropan's solution](#)

**841.**

2077D

[Maximum Polygon](#) · [Tutorial](#)

Quality: 339 global accepts · Rating: 3100 · first AC: 2025-06-17 · C++20 (GCC 13-64) (first AC) · Tags: brute force, data structures, greedy, implementation, math

[aropan's solution](#)

**842.**

379G

[New Year Cactus](#) · [Tutorial](#)

Quality: 152 global accepts · Rating: 3100 · first AC: 2014-01-03 · GNU C++ (first AC) · Tags: dp

[aropan's solution](#)

**843.**

1483E

[Vabank](#) · [Tutorial](#)

Rating: 3200 · first AC: 2021-03-21 · C++17 (GCC 7-32) (first AC) · Tags: binary search, dp, interactive

[aropan's solution](#)

**844.**

1368G

[Shifting Dominoes](#) · [Tutorial](#)

Quality: 676 global accepts · Rating: 3200 · first AC: 2020-06-18 · C++17 (GCC 7-32) (first AC) · Tags: data structures, geometry, graphs, trees

[aropan's solution](#)

**845.**

106250E

[Mahjong Connect](#) · [Tutorial](#)

Rating: — · first AC: 2025-12-07 · last AC: 2025-12-07 · C++23 (GCC 14-64, msys2) (first AC) · Tags: —

[aropan's solution](#)

**846.**

1952A

[Are You a Robot, Again?](#) · [Tutorial](#)

Quality: 14,101 global accepts · Rating: — · first AC: 2024-04-01 · Python 3 (first AC) · Tags: \*special, strings

[aropan's solution](#)

**847.**

1812B

[Was it Rated?](#) · [Tutorial](#)

Quality: 6,059 global accepts · Rating: — · first AC: 2023-04-01 · Python 3 (first AC) · Tags: \*special, brute force, implementation

[aropan's solution](#)

**848.**

1812A

[Are You a Robot?](#) · [Tutorial](#)

Quality: 14,337 global accepts · Rating: — · first AC: 2023-04-01 · Python 3 (first AC) · Tags: \*special, expression parsing, strings  
[aropan's solution](#)

**849.**

1531D

[B 5CD0C#BCja@D45CÂ C,,=C45D Â 6öÆ÷](#)

Quality: 370 global accepts · Rating: — · first AC: 2021-05-30 · C++17 (GCC 7-32) (first AC) · Tags: \*special  
[aropan's solution](#)

**850.**

1531E3

[B >DBG,,@Cä2C#0 D ;C,,OCÔ8CT<](#)

Quality: 271 global accepts · Rating: — · first AC: 2021-05-30 · C++17 (GCC 7-32) (first AC) · Tags: \*special, binary search  
[aropan's solution](#)

**851.**

1531E2

[B >DBG,,@Cä2C#0 D ;C,,OCÔ8CT<](#)

Quality: 340 global accepts · Rating: — · first AC: 2021-05-30 · C++17 (GCC 7-32) (first AC) · Tags: \*special, brute force  
[aropan's solution](#)

**852.**

1531E1

[B >DBG,,@Cä2C#0 D ;C,,OCÔ8CT<](#)

Quality: 362 global accepts · Rating: — · first AC: 2021-05-30 · C++17 (GCC 7-32) (first AC) · Tags: \*special  
[aropan's solution](#)

**853.**

1531C

[B 8CÄ<CTBD 8Dt=D'9 C <DD8D\\$5C BD](#)

Quality: 659 global accepts · Rating: — · first AC: 2021-05-30 · C++17 (GCC 7-32) (first AC) · Tags: \*special, constructive algorithms, dp  
[aropan's solution](#)

**854.**

1531B2

[AÄ#CÔ8D\\$>D 8CÔ3](#)

Quality: 796 global accepts · Rating: — · first AC: 2021-05-30 · C++17 (GCC 7-32) (first AC) · Tags: \*special  
[aropan's solution](#)

**855.**

1531B1

[AÄ#CÔ8D\\$>D 8CÔ3](#)

Quality: 1,157 global accepts · Rating: — · first AC: 2021-05-30 · C++17 (GCC 7-32) (first AC) · Tags: \*special  
[aropan's solution](#)

**856.**

1531A

[At8CÔ3CT@|color](#)

Quality: 1,483 global accepts · Rating: — · first AC: 2021-05-30 · C++17 (GCC 7-32) (first AC) · Tags: \*special, implementation  
[aropan's solution](#)

**857.**

1275D

[Storage2 · Tutorial](#)

Quality: 422 global accepts · Rating: — · first AC: 2019-12-16 · C++17 (GCC 7-32) (first AC) · Tags: \*special  
[aropan's solution](#)

**858.**

1275C

[#define At0CDD010B ...](#)

Quality: 698 global accepts · Rating: — · first AC: 2019-12-16 · C++17 (GCC 7-32) (first AC) · Tags: \*special  
[aropan's solution](#)

**859.**

1275B

[Code Review · Tutorial](#)

Quality: 844 global accepts · Rating: — · first AC: 2019-12-16 · C++17 (GCC 7-32) (first AC) · Tags: \*special

[aropan's solution](#)

**860.**

1275A

[B 7DKD\\$KC' 4D CC0](#)

Quality: 891 global accepts · Rating: — · first AC: 2019-12-16 · C++17 (GCC 7-32) (first AC) · Tags: \*special

[aropan's solution](#)

**861.**

101128E

[Wooden Signs](#) · Tutorial

Rating: — · first AC: 2017-02-19 · last AC: 2017-02-22 · C++14 (GCC 6-32) (first AC) · Tags: —

[aropan's solution](#)

**862.**

100523J

[Cave](#) · Tutorial

Rating: — · first AC: 2014-10-30 · GNU C++ (first AC) · Tags: —

[aropan's solution](#)

**863.**

100132H

[B BD00Ô=D'9 C4>D >C@](#)

Rating: — · first AC: 2012-12-05 · GNU C++ (first AC) · Tags: —

[aropan's solution](#)

**864.**

100132D

[A 5D \\*C ô>D 0CD:C€](#)

Rating: — · first AC: 2012-12-05 · GNU C++ (first AC) · Tags: —

[aropan's solution](#)

**865.**

100132E

[A 70dGT<C,,O AD6CT4C 5C](#)

Rating: — · first AC: 2012-12-05 · GNU C++ (first AC) · Tags: —

[aropan's solution](#)

**866.**

100132K

[A\\$0CÄC,,@D :C,,5 Dt8D ;C](#)

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[aropan's solution](#)

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