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Unique solved — PavelKunyavskiy

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

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Filters: none

Count: 1,034

- 1.**
1942A
[Farmer John's Challenge](#) · [Tutorial](#)
Quality: 18,506 global accepts · Rating: 800 · first AC: 2024-03-30 · Kotlin 1.9 (first AC) · Tags: constructive algorithms, math
[PavelKunyavskiy's solution](#)
- 2.**
1810B
[Candies](#) · [Tutorial](#)
Quality: 18,934 global accepts · Rating: 800 · first AC: 2023-03-31 · Kotlin 1.7 (first AC) · Tags: constructive algorithms, math, number theory
[PavelKunyavskiy's solution](#)
- 3.**
1810A
[Beautiful Sequence](#) · [Tutorial](#)
Quality: 21,910 global accepts · Rating: 800 · first AC: 2023-03-31 · Kotlin 1.7 (first AC) · Tags: brute force, greedy
[PavelKunyavskiy's solution](#)
- 4.**
1804A
[Lame King](#) · [Tutorial](#)
Quality: 18,666 global accepts · Rating: 800 · first AC: 2023-03-12 · Kotlin 1.7 (first AC) · Tags: greedy, math
[PavelKunyavskiy's solution](#)
- 5.**
1782A
[Parallel Projection](#) · [Tutorial](#)
Rating: 800 · first AC: 2023-01-15 · Kotlin 1.7 (first AC) · Tags: geometry, greedy, math
[PavelKunyavskiy's solution](#)
- 6.**
1761A
[Two Permutations](#) · [Tutorial](#)
Quality: 36,602 global accepts · Rating: 800 · first AC: 2022-11-20 · Kotlin 1.7 (first AC) · Tags: brute force, constructive algorithms
[PavelKunyavskiy's solution](#)
- 7.**
1746B
[Rebellion](#) · [Tutorial](#)
Quality: 18,637 global accepts · Rating: 800 · first AC: 2022-10-15 · Kotlin 1.6 (first AC) · Tags: constructive algorithms, greedy, two pointers
[PavelKunyavskiy's solution](#)
- 8.**
1746A
[Maxmina](#) · [Tutorial](#)
Quality: 21,066 global accepts · Rating: 800 · first AC: 2022-10-15 · Kotlin 1.6 (first AC) · Tags: constructive algorithms, greedy
[PavelKunyavskiy's solution](#)
- 9.**
1738A
[Glory Addicts](#) · [Tutorial](#)
Quality: 14,193 global accepts · Rating: 800 · first AC: 2022-09-30 · Kotlin 1.6 (first AC) · Tags: greedy, implementation, sortings
[PavelKunyavskiy's solution](#)
- 10.**
1704A
[Two 0-1 Sequences](#) · [Tutorial](#)

Quality: 16,651 global accepts · Rating: 800 · first AC: 2022-07-31 · Kotlin 1.6 (first AC) · Tags: constructive algorithms, greedy
[PavelKunyavskiy's solution](#)

11.

1696A

[NIT orz!](#) · [Tutorial](#)

Quality: 20,260 global accepts · Rating: 800 · first AC: 2022-06-25 · Kotlin 1.6 (first AC) · Tags: bitmasks, greedy
[PavelKunyavskiy's solution](#)

12.

1615A

[Closing The Gap](#) · [Tutorial](#)

Quality: 21,579 global accepts · Rating: 800 · first AC: 2021-12-24 · Kotlin 1.5 (first AC) · Tags: greedy, math
[PavelKunyavskiy's solution](#)

13.

1284A

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

Quality: 18,594 global accepts · Rating: 800 · first AC: 2020-01-04 · C++17 (GCC 7-32) (first AC) · Tags: implementation, strings
[PavelKunyavskiy's solution](#)

14.

1097A

[Gennady and a Card Game](#) · [Tutorial](#)

Quality: 43,805 global accepts · Rating: 800 · first AC: 2019-01-04 · C++17 (GCC 7-32) (first AC) · Tags: brute force, implementation
[PavelKunyavskiy's solution](#)

15.

1028A

[Find Square](#) · [Tutorial](#)

Quality: 11,522 global accepts · Rating: 800 · first AC: 2018-08-27 · C++14 (GCC 6-32) (first AC) · Tags: implementation
[PavelKunyavskiy's solution](#)

16.

1002A1

[Generate superposition of all basis states](#) · [Tutorial](#)

Quality: 929 global accepts · Rating: 800 · first AC: 2018-07-07 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

17.

908A

[New Year and Counting Cards](#) · [Tutorial](#)

Quality: 15,841 global accepts · Rating: 800 · first AC: 2017-12-29 · GNU C++11 (first AC) · Tags: brute force, implementation
[PavelKunyavskiy's solution](#)

18.

859A

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

Quality: 8,619 global accepts · Rating: 800 · first AC: 2017-09-16 · GNU C++11 (first AC) · Tags: greedy, implementation
[PavelKunyavskiy's solution](#)

19.

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
[PavelKunyavskiy's solution](#)

20.

513A

[Game](#) · [Tutorial](#)

Quality: 21,849 global accepts · Rating: 800 · first AC: 2015-02-07 · GNU C++0x (first AC) · Tags: constructive algorithms, math
[PavelKunyavskiy's solution](#)

21.

472A

[Design Tutorial: Learn from Math](#) · [Tutorial](#)

Quality: 70,772 global accepts · Rating: 800 · first AC: 2014-09-28 · GNU C++0x (first AC) · Tags: math, number theory

[PavelKunyavskiy's solution](#)

22.

291A

[Spyke Talks](#) · [Tutorial](#)

Quality: 6,477 global accepts · Rating: 800 · first AC: 2013-04-13 · GNU C++ (first AC) · Tags: *special, implementation, sortings

[PavelKunyavskiy's solution](#)

23.

158A

[Next Round](#) · [Tutorial](#)

Quality: 320,461 global accepts · Rating: 800 · first AC: 2012-03-04 · GNU C++ (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

24.

119A

[Epic Game](#) · [Tutorial](#)

Quality: 29,581 global accepts · Rating: 800 · first AC: 2011-10-14 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

25.

71A

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

Quality: 503,240 global accepts · Rating: 800 · first AC: 2011-03-29 · GNU C++ (first AC) · Tags: strings

[PavelKunyavskiy's solution](#)

26.

59A

[Word](#) · [Tutorial](#)

Quality: 227,913 global accepts · Rating: 800 · first AC: 2011-03-21 · GNU C++ (first AC) · Tags: implementation, strings

[PavelKunyavskiy's solution](#)

27.

4A

[Watermelon](#) · [Tutorial](#)

Quality: 687,804 global accepts · Rating: 800 · first AC: 2011-03-20 · GNU C++ (first AC) · Tags: brute force, math

[PavelKunyavskiy's solution](#)

28.

61A

[Ultra-Fast Mathematician](#) · [Tutorial](#)

Quality: 136,207 global accepts · Rating: 800 · first AC: 2011-02-22 · last AC: 2011-02-22 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

29.

50A

[Domino piling](#) · [Tutorial](#)

Quality: 318,701 global accepts · Rating: 800 · first AC: 2010-12-20 · GNU C++ (first AC) · Tags: greedy, math

[PavelKunyavskiy's solution](#)

30.

49A

[Sleuth](#) · [Tutorial](#)

Quality: 15,266 global accepts · Rating: 800 · first AC: 2010-12-17 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

31.

46A

[Ball Game](#) · [Tutorial](#)

Quality: 9,934 global accepts · Rating: 800 · first AC: 2010-12-05 · GNU C++ (first AC) · Tags: brute force, implementation

[PavelKunyavskiy's solution](#)

32.

41A

[Translation](#) · [Tutorial](#)

Quality: 188,437 global accepts · Rating: 800 · first AC: 2010-11-08 · GNU C++ (first AC) · Tags: implementation, strings

[PavelKunyavskiy's solution](#)

33.

38A

[Army](#) · [Tutorial](#)

Quality: 26,486 global accepts · Rating: 800 · first AC: 2010-10-30 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

34.

34A

[Reconnaissance 2](#) · [Tutorial](#)

Quality: 34,682 global accepts · Rating: 800 · first AC: 2010-10-11 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

35.

32B

[Borze](#) · [Tutorial](#)

Quality: 79,750 global accepts · Rating: 800 · first AC: 2010-10-02 · last AC: 2010-10-02 · GNU C++ (first AC) · Tags: expression parsing, implementation

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36.

32A

[Reconnaissance](#) · [Tutorial](#)

Quality: 14,895 global accepts · Rating: 800 · first AC: 2010-10-02 · last AC: 2010-10-02 · GNU C++ (first AC) · Tags: brute force

[PavelKunyavskiy's solution](#)

37.

16A

[Flag](#) · [Tutorial](#)

Quality: 17,252 global accepts · Rating: 800 · first AC: 2010-06-03 · MS C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

38.

14A

[Letter](#) · [Tutorial](#)

Quality: 12,397 global accepts · Rating: 800 · first AC: 2010-05-19 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

39.

12A

[Super Agent](#) · [Tutorial](#)

Quality: 15,425 global accepts · Rating: 800 · first AC: 2010-04-29 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

40.

2007B

[Index and Maximum Value](#) · [Tutorial](#)

Quality: 25,593 global accepts · Rating: 900 · first AC: 2024-09-14 · Kotlin 1.9 (first AC) · Tags: data structures, greedy

[PavelKunyavskiy's solution](#)

41.

1696B

[NIT Destroys the Universe](#) · [Tutorial](#)

Quality: 36,322 global accepts · Rating: 900 · first AC: 2022-06-25 · Kotlin 1.6 (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

42.

1488A

[From Zero To Y](#) · [Tutorial](#)

Quality: 1,791 global accepts · Rating: 900 · first AC: 2021-03-09 · Kotlin 1.4 (first AC) · Tags: *special, math

[PavelKunyavskiy's solution](#)

43.

1427A

[Avoiding Zero](#) · [Tutorial](#)

Quality: 18,033 global accepts · Rating: 900 · first AC: 2020-10-10 · C++17 (GCC 7-32) (first AC) · Tags: math, sortings

[PavelKunyavskiy's solution](#)

44.

1326B

[Maximums](#) · [Tutorial](#)

Quality: 25,271 global accepts · Rating: 900 · first AC: 2020-03-19 · C++17 (GCC 7-32) (first AC) · Tags: implementation, math

[PavelKunyavskiy's solution](#)

45.

981A

[Antipalindrome](#) · [Tutorial](#)

Quality: 10,328 global accepts · Rating: 900 · first AC: 2018-05-27 · GNU C++11 (first AC) · Tags: brute force, implementation, strings

[PavelKunyavskiy's solution](#)

46.

549A

[Face Detection](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

47.

149A

[Business trip](#) · [Tutorial](#)

Quality: 45,987 global accepts · Rating: 900 · first AC: 2012-02-10 · Java 6 (first AC) · Tags: greedy, implementation, sortings

[PavelKunyavskiy's solution](#)

48.

115A

[Party](#) · [Tutorial](#)

Quality: 43,353 global accepts · Rating: 900 · first AC: 2011-09-15 · GNU C++ (first AC) · Tags: dfs and similar, graphs, trees

[PavelKunyavskiy's solution](#)

49.

48A

[Rock-paper-scissors](#) · [Tutorial](#)

Quality: 7,292 global accepts · Rating: 900 · first AC: 2011-03-23 · GNU C++ (first AC) · Tags: implementation, schedules

[PavelKunyavskiy's solution](#)

50.

63A

[Sinking Ship](#) · [Tutorial](#)

Quality: 13,424 global accepts · Rating: 900 · first AC: 2011-02-28 · GNU C++ (first AC) · Tags: implementation, sortings, strings

[PavelKunyavskiy's solution](#)

51.

45A

[Codecraft III](#) · [Tutorial](#)

Quality: 8,111 global accepts · Rating: 900 · first AC: 2010-11-13 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

52.

44A

[Indian Summer](#) · [Tutorial](#)

Quality: 17,489 global accepts · Rating: 900 · first AC: 2010-11-06 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

53.

34B

[Sale](#) · [Tutorial](#)

Quality: 66,025 global accepts · Rating: 900 · first AC: 2010-10-11 · GNU C++ (first AC) · Tags: greedy, sortings

[PavelKunyavskiy's solution](#)

54.

26A

[Almost Prime](#) · [Tutorial](#)

Quality: 42,749 global accepts · Rating: 900 · first AC: 2010-08-16 · GNU C++ (first AC) · Tags: number theory

[PavelKunyavskiy's solution](#)

55.

16B

[Burglar and Matches](#) · [Tutorial](#)

Quality: 20,767 global accepts · Rating: 900 · first AC: 2010-06-03 · MS C++ (first AC) · Tags: greedy, implementation, sortings

[PavelKunyavskiy's solution](#)

56.

10A

[Power Consumption Calculation](#) · [Tutorial](#)

Quality: 8,346 global accepts · Rating: 900 · first AC: 2010-04-15 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

57.

120A

[Elevator](#) · [Tutorial](#)

Quality: 5,665 global accepts · Rating: 1000 · first AC: 2024-09-10 · Kotlin 1.9 (first AC) · Tags: brute force, implementation, math

[PavelKunyavskiy's solution](#)

58.

1804B

[Vaccination](#) · [Tutorial](#)

Quality: 15,623 global accepts · Rating: 1000 · first AC: 2023-03-12 · Kotlin 1.7 (first AC) · Tags: greedy, implementation

[PavelKunyavskiy's solution](#)

59.

1782B

[Going to the Cinema](#) · [Tutorial](#)

Rating: 1000 · first AC: 2023-01-15 · Kotlin 1.7 (first AC) · Tags: brute force, greedy, sortings

[PavelKunyavskiy's solution](#)

60.

1770B

[Koxia and Permutation](#) · [Tutorial](#)

Quality: 20,850 global accepts · Rating: 1000 · first AC: 2022-12-30 · Kotlin 1.7 (first AC) · Tags: constructive algorithms

[PavelKunyavskiy's solution](#)

61.

1770A

[Koxia and Whiteboards](#) · [Tutorial](#)

Quality: 25,244 global accepts · Rating: 1000 · first AC: 2022-12-30 · Kotlin 1.7 (first AC) · Tags: brute force, greedy

[PavelKunyavskiy's solution](#)

62.

1761B

[Elimination of a Ring](#) · [Tutorial](#)

Quality: 14,714 global accepts · Rating: 1000 · first AC: 2022-11-20 · Kotlin 1.7 (first AC) · Tags: constructive algorithms, greedy, implementation

[PavelKunyavskiy's solution](#)

63.

1704B

[Luke is a Foodie](#) · [Tutorial](#)

Quality: 29,915 global accepts · Rating: 1000 · first AC: 2022-07-31 · Kotlin 1.6 (first AC) · Tags: brute force, greedy, implementation

[PavelKunyavskiy's solution](#)

64.

1326A

[Bad Ugly Numbers](#) · [Tutorial](#)

Quality: 32,679 global accepts · Rating: 1000 · first AC: 2020-03-19 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, number theory

[PavelKunyavskiy's solution](#)

65.

1237A

[Balanced Rating Changes](#) · [Tutorial](#)

Quality: 22,121 global accepts · Rating: 1000 · first AC: 2019-10-16 · C++17 (GCC 7-32) (first AC) · Tags: implementation, math

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66.

981B

[Businessmen Problems](#) · [Tutorial](#)

Quality: 8,046 global accepts · Rating: 1000 · first AC: 2018-05-27 · GNU C++11 (first AC) · Tags: sortings

[PavelKunyavskiy's solution](#)

67.

859B

[Lazy Security Guard](#) · [Tutorial](#)

Quality: 7,904 global accepts · Rating: 1000 · first AC: 2017-09-16 · GNU C++11 (first AC) · Tags: brute force, geometry, math

[PavelKunyavskiy's solution](#)

68.

644A

[Parliament of Berland](#) · [Tutorial](#)

Quality: 4,669 global accepts · Rating: 1000 · first AC: 2016-03-16 · GNU C++11 (first AC) · Tags: *special, constructive algorithms

[PavelKunyavskiy's solution](#)

69.

626A

[Robot Sequence](#) · [Tutorial](#)

Quality: 6,700 global accepts · Rating: 1000 · first AC: 2016-02-13 · GNU C++11 (first AC) · Tags: brute force, implementation

[PavelKunyavskiy's solution](#)

70.

182B

[Vasya's Calendar](#) · [Tutorial](#)

Quality: 7,364 global accepts · Rating: 1000 · first AC: 2012-04-24 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

71.

118B

[Present from Lena](#) · [Tutorial](#)

Quality: 34,583 global accepts · Rating: 1000 · first AC: 2011-10-07 · GNU C++ (first AC) · Tags: constructive algorithms, implementation

[PavelKunyavskiy's solution](#)

72.

118A

[String Task](#) · [Tutorial](#)

Quality: 231,420 global accepts · Rating: 1000 · first AC: 2011-10-07 · GNU C++ (first AC) · Tags: implementation, strings

[PavelKunyavskiy's solution](#)

73.

109A

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

Quality: 19,822 global accepts · Rating: 1000 · first AC: 2011-08-29 · GNU C++ (first AC) · Tags: brute force, implementation

[PavelKunyavskiy's solution](#)

74.

69A

[Young Physicist](#) · [Tutorial](#)

Quality: 202,359 global accepts · Rating: 1000 · first AC: 2011-03-22 · GNU C++ (first AC) · Tags: implementation, math

[PavelKunyavskiy's solution](#)

75.

72G

[Fibonacci army](#) · [Tutorial](#)

Quality: 2,835 global accepts · Rating: 1000 · first AC: 2011-03-20 · lo (first AC) · Tags: *special, dp

[PavelKunyavskiy's solution](#)

76.

1A

[Theatre Square](#) · [Tutorial](#)

Quality: 320,194 global accepts · Rating: 1000 · first AC: 2011-03-16 · GNU C++ (first AC) · Tags: math

[PavelKunyavskiy's solution](#)

77.

58A

[Chat room](#) · [Tutorial](#)

Quality: 155,988 global accepts · Rating: 1000 · first AC: 2011-01-31 · GNU C++ (first AC) · Tags: greedy, strings

[PavelKunyavskiy's solution](#)

78.

43A

[Football](#) · [Tutorial](#)

Quality: 69,163 global accepts · Rating: 1000 · first AC: 2010-11-29 · GNU C++ (first AC) · Tags: strings

[PavelKunyavskiy's solution](#)

79.

37A

[Towers](#) · [Tutorial](#)

Quality: 27,688 global accepts · Rating: 1000 · first AC: 2010-10-25 · GNU C++ (first AC) · Tags: sortings

[PavelKunyavskiy's solution](#)

80.

17A

[Noldbach problem](#) · [Tutorial](#)

Quality: 21,401 global accepts · Rating: 1000 · first AC: 2010-06-10 · GNU C++ (first AC) · Tags: brute force, math, number theory

[PavelKunyavskiy's solution](#)

81.

14B

[Young Photographer](#) · [Tutorial](#)

Quality: 8,305 global accepts · Rating: 1000 · first AC: 2010-05-19 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

82.

13A

[Numbers](#) · [Tutorial](#)

Quality: 9,440 global accepts · Rating: 1000 · first AC: 2010-05-06 · GNU C++ (first AC) · Tags: implementation, math

[PavelKunyavskiy's solution](#)

83.

1942B

[Bessie and MEX](#) · [Tutorial](#)

Quality: 15,499 global accepts · Rating: 1100 · first AC: 2024-03-30 · Kotlin 1.9 (first AC) · Tags: constructive algorithms, math

[PavelKunyavskiy's solution](#)

84.

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

[PavelKunyavskiy's solution](#)

85.

1115G1

[AND oracle](#) · [Tutorial](#)

Quality: 402 global accepts · Rating: 1100 · first AC: 2019-03-01 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

86.

799A

[Carrot Cakes](#) · [Tutorial](#)

Quality: 21,444 global accepts · Rating: 1100 · first AC: 2017-05-11 · GNU C++11 (first AC) · Tags: brute force, implementation

[PavelKunyavskiy's solution](#)

87.

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

[PavelKunyavskiy's solution](#)

88.

633A

[Ebony and Ivory](#) · [Tutorial](#)

Quality: 14,693 global accepts · Rating: 1100 · first AC: 2016-02-26 · GNU C++11 (first AC) · Tags: brute force, math, number theory

[PavelKunyavskiy's solution](#)

89.

475A

[Bayan Bus](#) · [Tutorial](#)

Quality: 4,931 global accepts · Rating: 1100 · first AC: 2014-10-05 · GNU C++0x (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

90.

331C1

[The Great Julya Calendar](#) · [Tutorial](#)

Quality: 7,085 global accepts · Rating: 1100 · first AC: 2013-07-17 · GNU C++ (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

91.

316A1

[Special Task](#) · [Tutorial](#)

Quality: 2,888 global accepts · Rating: 1100 · first AC: 2013-06-12 · Java 7 (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

92.

292A

[SMSC](#) · [Tutorial](#)

Quality: 2,864 global accepts · Rating: 1100 · first AC: 2013-04-15 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

93.

196A

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

Quality: 5,844 global accepts · Rating: 1100 · first AC: 2012-06-12 · GNU C++ (first AC) · Tags: greedy, strings

[PavelKunyavskiy's solution](#)

94.

188D

[Asterisks](#) · [Tutorial](#)

Quality: 750 global accepts · Rating: 1100 · first AC: 2012-05-25 · Roco (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

95.

188A

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

Quality: 848 global accepts · Rating: 1100 · first AC: 2012-05-25 · Roco (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

96.

190A

[Vasya and the Bus](#) · [Tutorial](#)

Quality: 6,259 global accepts · Rating: 1100 · first AC: 2012-05-16 · Java 7 (first AC) · Tags: greedy, math

[PavelKunyavskiy's solution](#)

97.

162A

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

Quality: 842 global accepts · Rating: 1100 · first AC: 2012-03-18 · Factor (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

98.

158B

[Taxi](#) · [Tutorial](#)

Quality: 103,819 global accepts · Rating: 1100 · first AC: 2012-03-04 · GNU C++ (first AC) · Tags: *special, greedy, implementation

[PavelKunyavskiy's solution](#)

99.

121A

[Lucky Sum](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

100.

82A

[Double Cola](#) · [Tutorial](#)

Quality: 32,234 global accepts · Rating: 1100 · first AC: 2011-05-06 · GNU C++ (first AC) · Tags: implementation, math

[PavelKunyavskiy's solution](#)

101.

66B

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

Quality: 23,109 global accepts · Rating: 1100 · first AC: 2011-04-23 · GNU C++ (first AC) · Tags: brute force, implementation

[PavelKunyavskiy's solution](#)

102.

68A

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

Quality: 5,363 global accepts · Rating: 1100 · first AC: 2011-03-18 · GNU C++ (first AC) · Tags: implementation, number theory

[PavelKunyavskiy's solution](#)

103.

46B

[T-shirts from Sponsor](#) · [Tutorial](#)

Quality: 4,135 global accepts · Rating: 1100 · first AC: 2010-12-05 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

104.

43B

[Letter](#) · [Tutorial](#)

Quality: 20,488 global accepts · Rating: 1100 · first AC: 2010-11-29 · GNU C++ (first AC) · Tags: implementation, strings

[PavelKunyavskiy's solution](#)

105.

39D

[Cubical Planet](#) · [Tutorial](#)

Quality: 4,665 global accepts · Rating: 1100 · first AC: 2010-10-24 · GNU C++ (first AC) · Tags: math

[PavelKunyavskiy's solution](#)

106.

12C

[Fruits](#) · [Tutorial](#)

Quality: 7,353 global accepts · Rating: 1100 · first AC: 2010-04-29 · GNU C++ (first AC) · Tags: greedy, implementation, sortings

[PavelKunyavskiy's solution](#)

107.

12B

[Correct Solution?](#) · [Tutorial](#)

Quality: 9,670 global accepts · Rating: 1100 · first AC: 2010-04-29 · GNU C++ (first AC) · Tags: implementation, sortings

[PavelKunyavskiy's solution](#)

108.

7A

[Kalevitch and Chess](#) · [Tutorial](#)

Quality: 8,023 global accepts · Rating: 1100 · first AC: 2010-04-01 · GNU C++ (first AC) · Tags: brute force, constructive algorithms

[PavelKunyavskiy's solution](#)

109.

1738B

[Prefix Sum Addicts](#) · [Tutorial](#)

Quality: 18,792 global accepts · Rating: 1200 · first AC: 2022-09-30 · Kotlin 1.6 (first AC) · Tags: constructive algorithms, greedy, math, sortings

[PavelKunyavskiy's solution](#)

110.

1704C

[Virus](#) · [Tutorial](#)

Quality: 24,791 global accepts · Rating: 1200 · first AC: 2022-07-31 · Kotlin 1.6 (first AC) · Tags: greedy, implementation, sortings

[PavelKunyavskiy's solution](#)

111.

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

[PavelKunyavskiy's solution](#)

112.

1149A

[Prefix Sum Primes](#) · [Tutorial](#)

Quality: 17,894 global accepts · Rating: 1200 · first AC: 2019-04-29 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, greedy, math, number theory

[PavelKunyavskiy's solution](#)

113.

1097B

[Petr and a Combination Lock](#) · [Tutorial](#)

Quality: 35,955 global accepts · Rating: 1200 · first AC: 2019-01-04 · C++17 (GCC 7-32) (first AC) · Tags: bitmasks, brute force, dp

[PavelKunyavskiy's solution](#)

114.

1028B

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

Quality: 10,241 global accepts · Rating: 1200 · first AC: 2018-08-27 · C++14 (GCC 6-32) (first AC) · Tags: constructive algorithms, math

[PavelKunyavskiy's solution](#)

115.

1002D1

[Oracle for \$f\(x\) = b * x \bmod 2\$](#) · [Tutorial](#)

Quality: 418 global accepts · Rating: 1200 · first AC: 2018-07-07 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

116.

908B

[New Year and Buggy Bot](#) · [Tutorial](#)

Quality: 7,902 global accepts · Rating: 1200 · first AC: 2017-12-29 · GNU C++11 (first AC) · Tags: brute force, implementation

[PavelKunyavskiy's solution](#)

117.

708A

[Letters Cyclic Shift](#) · [Tutorial](#)

Quality: 9,800 global accepts · Rating: 1200 · first AC: 2016-08-24 · GNU C++11 (first AC) · Tags: constructive algorithms, greedy, implementation, strings

[PavelKunyavskiy's solution](#)

118.

645B

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

Quality: 3,701 global accepts · Rating: 1200 · first AC: 2016-03-18 · GNU C++11 (first AC) · Tags: greedy, math

[PavelKunyavskiy's solution](#)

119.

645A

[Amity Assessment](#) · [Tutorial](#)

Quality: 3,781 global accepts · Rating: 1200 · first AC: 2016-03-18 · GNU C++11 (first AC) · Tags: brute force, constructive algorithms, implementation

[PavelKunyavskiy's solution](#)

120.

482A

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

Quality: 10,258 global accepts · Rating: 1200 · first AC: 2014-10-24 · GNU C++0x (first AC) · Tags: constructive algorithms, greedy
[PavelKunyavskiy's solution](#)

121.

292B

[Network Topology](#) · [Tutorial](#)

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

122.

264A

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

Quality: 11,814 global accepts · Rating: 1200 · first AC: 2013-01-20 · GNU C++ (first AC) · Tags: constructive algorithms, data structures, implementation, two pointers
[PavelKunyavskiy's solution](#)

123.

176A

[Trading Business](#) · [Tutorial](#)

Quality: 1,806 global accepts · Rating: 1200 · first AC: 2012-04-20 · GNU C++ (first AC) · Tags: greedy, sortings
[PavelKunyavskiy's solution](#)

124.

145A

[Lucky Conversion](#) · [Tutorial](#)

Quality: 7,937 global accepts · Rating: 1200 · first AC: 2012-01-22 · GNU C++ (first AC) · Tags: greedy, implementation
[PavelKunyavskiy's solution](#)

125.

88A

[Chord](#) · [Tutorial](#)

Quality: 4,089 global accepts · Rating: 1200 · first AC: 2011-06-07 · GNU C++ (first AC) · Tags: brute force, implementation
[PavelKunyavskiy's solution](#)

126.

48B

[Land Lot](#) · [Tutorial](#)

Quality: 3,042 global accepts · Rating: 1200 · first AC: 2011-03-23 · GNU C++ (first AC) · Tags: brute force, implementation
[PavelKunyavskiy's solution](#)

127.

69B

[Bets](#) · [Tutorial](#)

Quality: 3,619 global accepts · Rating: 1200 · first AC: 2011-03-22 · GNU C++ (first AC) · Tags: greedy, implementation
[PavelKunyavskiy's solution](#)

128.

72C

[Extraordinarily Nice Numbers](#) · [Tutorial](#)

Quality: 1,052 global accepts · Rating: 1200 · first AC: 2011-03-20 · lo (first AC) · Tags: *special, math
[PavelKunyavskiy's solution](#)

129.

63B

[Settlers' Training](#) · [Tutorial](#)

Quality: 5,211 global accepts · Rating: 1200 · first AC: 2011-02-28 · GNU C++ (first AC) · Tags: implementation
[PavelKunyavskiy's solution](#)

130.

55A

[Flea travel](#) · [Tutorial](#)

Quality: 3,886 global accepts · Rating: 1200 · first AC: 2011-01-14 · GNU C++ (first AC) · Tags: implementation, math
[PavelKunyavskiy's solution](#)

131.

38B

[Chess](#) · [Tutorial](#)

Quality: 4,031 global accepts · Rating: 1200 · first AC: 2010-10-30 · GNU C++ (first AC) · Tags: brute force, implementation, math
[PavelKunyavskiy's solution](#)

132.

33A

[What is for dinner?](#) · [Tutorial](#)

Quality: 4,852 global accepts · Rating: 1200 · first AC: 2010-10-07 · GNU C++ (first AC) · Tags: greedy, implementation
[PavelKunyavskiy's solution](#)

133.

18C

[Stripe](#) · [Tutorial](#)

Quality: 15,419 global accepts · Rating: 1200 · first AC: 2010-06-16 · GNU C++ (first AC) · Tags: data structures, implementation
[PavelKunyavskiy's solution](#)

134.

15A

[Cottage Village](#) · [Tutorial](#)

Quality: 4,496 global accepts · Rating: 1200 · first AC: 2010-05-29 · GNU C++ (first AC) · Tags: implementation, sortings
[PavelKunyavskiy's solution](#)

135.

8A

[Train and Peter](#) · [Tutorial](#)

Quality: 6,727 global accepts · Rating: 1200 · first AC: 2010-04-08 · GNU C++ (first AC) · Tags: strings
[PavelKunyavskiy's solution](#)

136.

1942C1

[Bessie's Birthday Cake \(Easy Version\)](#) · [Tutorial](#)

Quality: 12,423 global accepts · Rating: 1300 · first AC: 2024-03-30 · Kotlin 1.9 (first AC) · Tags: geometry, greedy, math
[PavelKunyavskiy's solution](#)

137.

1810C

[Make It Permutation](#) · [Tutorial](#)

Quality: 16,551 global accepts · Rating: 1300 · first AC: 2023-03-31 · Kotlin 1.7 (first AC) · Tags: brute force, greedy, sortings
[PavelKunyavskiy's solution](#)

138.

1746C

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

Quality: 14,100 global accepts · Rating: 1300 · first AC: 2022-10-15 · Kotlin 1.6 (first AC) · Tags: constructive algorithms, greedy, implementation, math
[PavelKunyavskiy's solution](#)

139.

1615B

[And It's Non-Zero](#) · [Tutorial](#)

Quality: 17,915 global accepts · Rating: 1300 · first AC: 2021-12-24 · Kotlin 1.5 (first AC) · Tags: bitmasks, greedy, math
[PavelKunyavskiy's solution](#)

140.

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
[PavelKunyavskiy's solution](#)

141.

1237B

[Balanced Tunnel](#) · [Tutorial](#)

Quality: 22,777 global accepts · Rating: 1300 · first AC: 2019-10-16 · C++17 (GCC 7-32) (first AC) · Tags: data structures, sortings, two pointers
[PavelKunyavskiy's solution](#)

142.

1002D2

[Oracle for \$f\(x\) = b * x + \(1 - b\) * \(1 - x\) \bmod 2\$](#) · Tutorial

Quality: 390 global accepts · Rating: 1300 · first AC: 2018-07-07 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

143.

1002B1

[Distinguish zero state and W state](#) · Tutorial

Quality: 488 global accepts · Rating: 1300 · first AC: 2018-07-07 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

144.

1002A2

[Generate superposition of zero state and a basis state](#) · Tutorial

Quality: 570 global accepts · Rating: 1300 · first AC: 2018-07-07 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

145.

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

[PavelKunyavskiy's solution](#)

146.

633B

[A Trivial Problem](#) · Tutorial

Quality: 7,238 global accepts · Rating: 1300 · first AC: 2016-02-26 · GNU C++11 (first AC) · Tags: brute force, constructive algorithms, math, number theory

[PavelKunyavskiy's solution](#)

147.

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

[PavelKunyavskiy's solution](#)

148.

573A

[Bear and Poker](#) · Tutorial

Quality: 18,202 global accepts · Rating: 1300 · first AC: 2015-08-29 · GNU C++11 (first AC) · Tags: implementation, math, number theory

[PavelKunyavskiy's solution](#)

149.

526A

[King of Thieves](#) · Tutorial

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

[PavelKunyavskiy's solution](#)

150.

472B

[Design Tutorial: Learn from Life](#) · Tutorial

Quality: 7,647 global accepts · Rating: 1300 · first AC: 2014-09-28 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

151.

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

[PavelKunyavskiy's solution](#)

152.

303A

[Lucky Permutation Triple](#) · Tutorial

Quality: 8,570 global accepts · Rating: 1300 · first AC: 2013-05-12 · GNU C++ (first AC) · Tags: constructive algorithms, implementation, math

[PavelKunyavskiy's solution](#)

153.

291B

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

Quality: 3,087 global accepts · Rating: 1300 · first AC: 2013-04-13 · GNU C++ (first AC) · Tags: *special, implementation, strings

[PavelKunyavskiy's solution](#)

154.

251A

[Points on Line](#) · [Tutorial](#)

Quality: 21,342 global accepts · Rating: 1300 · first AC: 2012-12-06 · GNU C++ (first AC) · Tags: binary search, combinatorics, two pointers

[PavelKunyavskiy's solution](#)

155.

238A

[Not Wool Sequences](#) · [Tutorial](#)

Quality: 2,184 global accepts · Rating: 1300 · first AC: 2012-11-04 · GNU C++ (first AC) · Tags: constructive algorithms, math

[PavelKunyavskiy's solution](#)

156.

241A

[Old Peykan](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

157.

220A

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

Quality: 13,118 global accepts · Rating: 1300 · first AC: 2012-08-31 · GNU C++ (first AC) · Tags: implementation, sortings

[PavelKunyavskiy's solution](#)

158.

188B

[A + Reverse B](#) · [Tutorial](#)

Quality: 788 global accepts · Rating: 1300 · first AC: 2012-05-25 · Roco (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

159.

185A

[Plant](#) · [Tutorial](#)

Quality: 6,520 global accepts · Rating: 1300 · first AC: 2012-05-04 · GNU C++ (first AC) · Tags: math

[PavelKunyavskiy's solution](#)

160.

173A

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

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

[PavelKunyavskiy's solution](#)

161.

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

[PavelKunyavskiy's solution](#)

162.

158D

[Ice Sculptures](#) · [Tutorial](#)

Quality: 6,492 global accepts · Rating: 1300 · first AC: 2012-03-04 · GNU C++ (first AC) · Tags: *special, brute force, number theory

[PavelKunyavskiy's solution](#)

163.

147A

[Punctuation](#) · [Tutorial](#)

Quality: 4,235 global accepts · Rating: 1300 · first AC: 2012-01-03 · GNU C++ (first AC) · Tags: implementation, strings

[PavelKunyavskiy's solution](#)

164.

135A

[Replacement](#) · [Tutorial](#)

Quality: 8,257 global accepts · Rating: 1300 · first AC: 2011-12-09 · GNU C++ (first AC) · Tags: greedy, implementation, sortings

[PavelKunyavskiy's solution](#)

165.

117A

[Elevator](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

166.

85A

[Domino](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

167.

83A

[Magical Array](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

168.

71B

[Progress Bar](#) · [Tutorial](#)

Quality: 5,273 global accepts · Rating: 1300 · first AC: 2011-03-29 · GNU C++ (first AC) · Tags: implementation, math

[PavelKunyavskiy's solution](#)

169.

70A

[Cookies](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

170.

62A

[A Student's Dream](#) · [Tutorial](#)

Quality: 3,773 global accepts · Rating: 1300 · first AC: 2011-02-25 · GNU C++ (first AC) · Tags: greedy, math

[PavelKunyavskiy's solution](#)

171.

61B

[Hard Work](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

172.

64A

[Factorial](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

173.

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

[PavelKunyavskiy's solution](#)

174.

58B

[Coins](#) · [Tutorial](#)

Quality: 13,230 global accepts · Rating: 1300 · first AC: 2011-01-31 · GNU C++ (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

175.

57A

[Square Earth?](#) · [Tutorial](#)

Quality: 3,255 global accepts · Rating: 1300 · first AC: 2011-01-25 · GNU C++ (first AC) · Tags: dfs and similar, greedy, implementation

[PavelKunyavskiy's solution](#)

176.

54A

[Presents](#) · [Tutorial](#)

Quality: 2,546 global accepts · Rating: 1300 · first AC: 2011-01-11 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

177.

51A

[Cheaterius's Problem](#) · [Tutorial](#)

Quality: 2,086 global accepts · Rating: 1300 · first AC: 2010-12-28 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

178.

43C

[Lucky Tickets](#) · [Tutorial](#)

Quality: 4,762 global accepts · Rating: 1300 · first AC: 2010-11-29 · GNU C++ (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

179.

41C

[Email address](#) · [Tutorial](#)

Quality: 4,195 global accepts · Rating: 1300 · first AC: 2010-11-08 · GNU C++ (first AC) · Tags: expression parsing, implementation

[PavelKunyavskiy's solution](#)

180.

44C

[Holidays](#) · [Tutorial](#)

Quality: 4,053 global accepts · Rating: 1300 · first AC: 2010-11-06 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

181.

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

[PavelKunyavskiy's solution](#)

182.

39H

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

Quality: 3,125 global accepts · Rating: 1300 · first AC: 2010-10-24 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

183.

39B

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

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

[PavelKunyavskiy's solution](#)

184.

39F

[Pacifist frogs](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

185.

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

[PavelKunyavskiy's solution](#)

186.

1761C

[Set Construction](#) · [Tutorial](#)

Quality: 10,728 global accepts · Rating: 1400 · first AC: 2022-11-20 · Kotlin 1.7 (first AC) · Tags: constructive algorithms, dfs and similar, graphs, greedy

[PavelKunyavskiy's solution](#)

187.

1696C

[Fishingprince Plays With Array](#) · [Tutorial](#)

Quality: 12,585 global accepts · Rating: 1400 · first AC: 2022-06-25 · Kotlin 1.6 (first AC) · Tags: constructive algorithms, greedy, implementation, math

[PavelKunyavskiy's solution](#)

188.

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

[PavelKunyavskiy's solution](#)

189.

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

[PavelKunyavskiy's solution](#)

190.

1284B

[New Year and Ascent Sequence](#) · [Tutorial](#)

Quality: 11,458 global accepts · Rating: 1400 · first AC: 2020-01-04 · C++17 (GCC 7-32) (first AC) · Tags: binary search, combinatorics, data structures, dp, implementation, sortings

[PavelKunyavskiy's solution](#)

191.

1276A

[As Simple as One and Two](#) · [Tutorial](#)

Quality: 12,950 global accepts · Rating: 1400 · first AC: 2019-12-14 · C++17 (GCC 7-32) (first AC) · Tags: dp, greedy

[PavelKunyavskiy's solution](#)

192.

1097C

[Yuhao and a Parenthesis](#) · [Tutorial](#)

Quality: 8,785 global accepts · Rating: 1400 · first AC: 2019-01-04 · C++17 (GCC 7-32) (first AC) · Tags: greedy, implementation

[PavelKunyavskiy's solution](#)

193.

981C

[Useful Decomposition](#) · [Tutorial](#)

Quality: 6,857 global accepts · Rating: 1400 · first AC: 2018-05-27 · GNU C++11 (first AC) · Tags: implementation, trees

[PavelKunyavskiy's solution](#)

194.

866A

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

Rating: 1400 · first AC: 2017-09-30 · GNU C++11 (first AC) · Tags: combinatorics, constructive algorithms, math

[PavelKunyavskiy's solution](#)

195.

843A

[Sorting by Subsequences](#) · [Tutorial](#)

Quality: 5,959 global accepts · Rating: 1400 · first AC: 2017-08-24 · GNU C++11 (first AC) · Tags: dfs and similar, dsu, implementation, math, sortings

[PavelKunyavskiy's solution](#)

196.

799B

[T-shirt buying](#) · [Tutorial](#)

Quality: 10,175 global accepts · Rating: 1400 · first AC: 2017-05-11 · GNU C++11 (first AC) · Tags: data structures, implementation

[PavelKunyavskiy's solution](#)

197.

679A

[Bear and Prime 100](#) · [Tutorial](#)

Quality: 15,449 global accepts · Rating: 1400 · first AC: 2016-06-08 · GNU C++11 (first AC) · Tags: constructive algorithms, interactive, math

[PavelKunyavskiy's solution](#)

198.

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

[PavelKunyavskiy's solution](#)

199.

513B1

[Permutations](#) · [Tutorial](#)

Quality: 3,833 global accepts · Rating: 1400 · first AC: 2015-02-07 · GNU C++0x (first AC) · Tags: brute force

[PavelKunyavskiy's solution](#)

200.

472C

[Design Tutorial: Make It Nondeterministic](#) · [Tutorial](#)

Quality: 6,517 global accepts · Rating: 1400 · first AC: 2014-09-28 · GNU C++0x (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

201.

470A

[Crystal Ball Sequence](#) · [Tutorial](#)

Quality: 695 global accepts · Rating: 1400 · first AC: 2014-09-13 · FALSE (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

202.

436B

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

Quality: 3,147 global accepts · Rating: 1400 · first AC: 2014-06-13 · GNU C++ (first AC) · Tags: implementation, math

[PavelKunyavskiy's solution](#)

203.

438A

[The Child and Toy](#) · [Tutorial](#)

Rating: 1400 · first AC: 2014-06-01 · GNU C++ (first AC) · Tags: greedy, sortings

[PavelKunyavskiy's solution](#)

204.

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

[PavelKunyavskiy's solution](#)

205.

331A1

[Oh Sweet Beaverette](#) · [Tutorial](#)

Quality: 1,528 global accepts · Rating: 1400 · first AC: 2013-07-17 · GNU C++ (first AC) · Tags: brute force, implementation

[PavelKunyavskiy's solution](#)

206.

316A2

[Special Task](#) · [Tutorial](#)

Quality: 2,295 global accepts · Rating: 1400 · first AC: 2013-06-12 · Java 7 (first AC) · Tags: math

[PavelKunyavskiy's solution](#)

207.

295A

[Greg and Array](#) · [Tutorial](#)

Quality: 26,007 global accepts · Rating: 1400 · first AC: 2013-04-11 · GNU C++ (first AC) · Tags: data structures, implementation

[PavelKunyavskiy's solution](#)

208.

290D

[Orange](#) · [Tutorial](#)

Quality: 1,904 global accepts · Rating: 1400 · first AC: 2013-04-01 · GNU C++ (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

209.

290A

[Mysterious strings](#) · [Tutorial](#)

Quality: 3,236 global accepts · Rating: 1400 · first AC: 2013-04-01 · GNU C++ (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

210.

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

[PavelKunyavskiy's solution](#)

211.

261A

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

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

[PavelKunyavskiy's solution](#)

212.

198B

[Jumping on Walls](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

213.

188E

[HQ9+](#) · [Tutorial](#)

Quality: 556 global accepts · Rating: 1400 · first AC: 2012-05-25 · Roco (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

214.

188F

[Binary Notation](#) · [Tutorial](#)

Quality: 345 global accepts · Rating: 1400 · first AC: 2012-05-25 · Roco (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

215.

188C

[LCM](#) · [Tutorial](#)

Quality: 502 global accepts · Rating: 1400 · first AC: 2012-05-25 · Roco (first AC) · Tags: *special, implementation, math

[PavelKunyavskiy's solution](#)

216.

158C

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

Quality: 10,390 global accepts · Rating: 1400 · first AC: 2012-03-04 · GNU C++ (first AC) · Tags: *special, data structures, implementation

[PavelKunyavskiy's solution](#)

217.

111A

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

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

[PavelKunyavskiy's solution](#)

218.

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

[PavelKunyavskiy's solution](#)

219.

77A

[Heroes](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

220.

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

[PavelKunyavskiy's solution](#)

221.

45I

[TCMCF+++](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

222.

41B

[Martian Dollar](#) · [Tutorial](#)

Quality: 4,628 global accepts · Rating: 1400 · first AC: 2010-11-08 · GNU C++ (first AC) · Tags: brute force

[PavelKunyavskiy's solution](#)

223.

44E

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

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

[PavelKunyavskiy's solution](#)

224.

38C

[Blinds](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

225.

30A

[Accounting](#) · [Tutorial](#)

Quality: 3,987 global accepts · Rating: 1400 · first AC: 2010-09-24 · GNU C++ (first AC) · Tags: brute force, math

[PavelKunyavskiy's solution](#)

226.

26B

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

Quality: 25,853 global accepts · Rating: 1400 · first AC: 2010-08-16 · GNU C++ (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

227.

24A

[Ring road](#) · [Tutorial](#)

Quality: 6,860 global accepts · Rating: 1400 · first AC: 2010-07-26 · GNU C++ (first AC) · Tags: graphs

[PavelKunyavskiy's solution](#)

228.

19A

[World Football Cup](#) · [Tutorial](#)

Quality: 3,141 global accepts · Rating: 1400 · first AC: 2010-06-24 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

229.

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

[PavelKunyavskiy's solution](#)

230.

1949B

[Charming Meals](#) · [Tutorial](#)

Quality: 4,897 global accepts · Rating: 1500 · first AC: 2024-03-24 · last AC: 2025-02-21 · C++17 (GCC 7-32) (first AC) · Tags: binary search, brute force, greedy, sortings

[PavelKunyavskiy's solution](#)

231.

1804C

[Pull Your Luck](#) · [Tutorial](#)

Quality: 13,836 global accepts · Rating: 1500 · first AC: 2023-03-12 · Kotlin 1.7 (first AC) · Tags: brute force, greedy, math, number theory

[PavelKunyavskiy's solution](#)

232.

1738C

[Even Number Addicts](#) · [Tutorial](#)

Quality: 12,774 global accepts · Rating: 1500 · first AC: 2022-09-30 · Kotlin 1.6 (first AC) · Tags: dp, games, greedy, math

[PavelKunyavskiy's solution](#)

233.

1326D1

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

Quality: 13,294 global accepts · Rating: 1500 · first AC: 2020-03-19 · C++17 (GCC 7-32) (first AC) · Tags: hashing, string suffix structures, strings

[PavelKunyavskiy's solution](#)

234.

1158A

[The Party and Sweets](#) · [Tutorial](#)

Quality: 8,337 global accepts · Rating: 1500 · first AC: 2019-05-12 · C++17 (GCC 7-32) (first AC) · Tags: binary search, constructive algorithms, greedy, implementation, math, sortings, two pointers

[PavelKunyavskiy's solution](#)

235.

1002A3

[Generate superposition of two basis states](#) · [Tutorial](#)

Quality: 484 global accepts · Rating: 1500 · first AC: 2018-07-07 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

236.

997A

[Convert to Ones](#) · [Tutorial](#)

Quality: 8,663 global accepts · Rating: 1500 · first AC: 2018-07-01 · GNU C++11 (first AC) · Tags: brute force, greedy, implementation, math

[PavelKunyavskiy's solution](#)

237.

908C

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

Quality: 7,203 global accepts · Rating: 1500 · first AC: 2017-12-29 · GNU C++11 (first AC) · Tags: brute force, geometry, implementation, math

[PavelKunyavskiy's solution](#)

238.

859C

[Pie Rules](#) · [Tutorial](#)

Quality: 6,076 global accepts · Rating: 1500 · first AC: 2017-09-16 · GNU C++11 (first AC) · Tags: dp, games

[PavelKunyavskiy's solution](#)

239.

744A

[Hongcow Builds A Nation](#) · [Tutorial](#)

Quality: 9,729 global accepts · Rating: 1500 · first AC: 2016-12-17 · GNU C++11 (first AC) · Tags: dfs and similar, graphs

[PavelKunyavskiy's solution](#)

240.

528A

[Glass Carving](#) · [Tutorial](#)

Rating: 1500 · first AC: 2015-03-17 · GNU C++0x (first AC) · Tags: data structures, implementation

[PavelKunyavskiy's solution](#)

241.

468A

[24 Game](#) · [Tutorial](#)

Quality: 8,399 global accepts · Rating: 1500 · first AC: 2014-09-20 · GNU C++0x (first AC) · Tags: constructive algorithms, greedy, math

[PavelKunyavskiy's solution](#)

242.

436A

[Feed with Candy](#) · [Tutorial](#)

Quality: 3,788 global accepts · Rating: 1500 · first AC: 2014-06-13 · GNU C++ (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

243.

367A

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

Quality: 4,546 global accepts · Rating: 1500 · first AC: 2013-11-26 · GNU C++ (first AC) · Tags: data structures, implementation

[PavelKunyavskiy's solution](#)

244.

356A

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

Quality: 16,788 global accepts · Rating: 1500 · first AC: 2013-10-15 · GNU C++ (first AC) · Tags: data structures, dsu

[PavelKunyavskiy's solution](#)

245.

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

[PavelKunyavskiy's solution](#)

246.

345A

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

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

[PavelKunyavskiy's solution](#)

247.

341B

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

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

[PavelKunyavskiy's solution](#)

248.

329B

[Biridian Forest](#) · [Tutorial](#)

Quality: 7,496 global accepts · Rating: 1500 · first AC: 2013-07-20 · GNU C++ (first AC) · Tags: dfs and similar, shortest paths

[PavelKunyavskiy's solution](#)

249.

329A

[Purification](#) · [Tutorial](#)

Quality: 4,805 global accepts · Rating: 1500 · first AC: 2013-07-20 · GNU C++ (first AC) · Tags: constructive algorithms, greedy

[PavelKunyavskiy's solution](#)

250.

331A2

[Oh Sweet Beaverette](#) · [Tutorial](#)

Quality: 1,546 global accepts · Rating: 1500 · first AC: 2013-07-17 · GNU C++ (first AC) · Tags: data structures, sortings

[PavelKunyavskiy's solution](#)

251.

316E1

[Summer Homework](#) · [Tutorial](#)

Quality: 1,548 global accepts · Rating: 1500 · first AC: 2013-06-12 · GNU C++ (first AC) · Tags: brute force, data structures

[PavelKunyavskiy's solution](#)

252.

316B1

[EKG](#) · [Tutorial](#)

Quality: 1,498 global accepts · Rating: 1500 · first AC: 2013-06-12 · GNU C++ (first AC) · Tags: brute force, dfs and similar

[PavelKunyavskiy's solution](#)

253.

293A

[Weird Game](#) · [Tutorial](#)

Quality: 3,196 global accepts · Rating: 1500 · first AC: 2013-04-22 · GNU C++ (first AC) · Tags: games, greedy

[PavelKunyavskiy's solution](#)

254.

290B

[QR code](#) · [Tutorial](#)

Quality: 2,617 global accepts · Rating: 1500 · first AC: 2013-04-01 · GNU C++ (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

255.

274A

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

Quality: 10,812 global accepts · Rating: 1500 · first AC: 2013-02-20 · GNU C++ (first AC) · Tags: binary search, greedy, sortings

[PavelKunyavskiy's solution](#)

256.

273A

[Dima and Staircase](#) · [Tutorial](#)

Rating: 1500 · first AC: 2013-02-13 · last AC: 2013-02-18 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

257.

264B

[Good Sequences](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

258.

229A

[Shifts](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

259.

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

[PavelKunyavskiy's solution](#)

260.

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

[PavelKunyavskiy's solution](#)

261.

191A

[Dynasty Puzzles](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

262.

190C

[STL](#) · [Tutorial](#)

Quality: 3,225 global accepts · Rating: 1500 · first AC: 2012-05-16 · Java 6 (first AC) · Tags: dfs and similar

[PavelKunyavskiy's solution](#)

263.

187A

[Permutations](#) · [Tutorial](#)

Quality: 3,043 global accepts · Rating: 1500 · first AC: 2012-05-10 · GNU C++ (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

264.

149C

[Division into Teams](#) · [Tutorial](#)

Quality: 5,733 global accepts · Rating: 1500 · first AC: 2012-02-10 · Java 6 (first AC) · Tags: greedy, math, sortings

[PavelKunyavskiy's solution](#)

265.

121B

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

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

[PavelKunyavskiy's solution](#)

266.

115B

[Lawnmower](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

267.

91B

[Queue](#) · [Tutorial](#)

Quality: 7,734 global accepts · Rating: 1500 · first AC: 2011-06-20 · GNU C++ (first AC) · Tags: binary search, data structures

[PavelKunyavskiy's solution](#)

268.

91A

[Newspaper Headline](#) · [Tutorial](#)

Quality: 3,954 global accepts · Rating: 1500 · first AC: 2011-06-20 · GNU C++ (first AC) · Tags: greedy, strings

[PavelKunyavskiy's solution](#)

269.

88B

[Keyboard](#) · [Tutorial](#)

Quality: 5,259 global accepts · Rating: 1500 · first AC: 2011-06-07 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

270.

48D

[Permutations](#) · [Tutorial](#)

Quality: 2,996 global accepts · Rating: 1500 · first AC: 2011-03-23 · GNU C++ (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

271.

72I

[Goofy Numbers](#) · [Tutorial](#)

Quality: 483 global accepts · Rating: 1500 · first AC: 2011-03-20 · lo (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

272.

64B

[Expression](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

273.

50B

[Choosing Symbol Pairs](#) · [Tutorial](#)

Quality: 6,451 global accepts · Rating: 1500 · first AC: 2010-12-20 · GNU C++ (first AC) · Tags: strings

[PavelKunyavskiy's solution](#)

274.

49B

[Sum](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

275.

44B

[Cola](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

276.

39J

[Spelling Check](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

277.

24B

[F1 Champions](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

278.

18A

[Triangle](#) · [Tutorial](#)

Quality: 6,956 global accepts · Rating: 1500 · first AC: 2010-06-16 · GNU C++ (first AC) · Tags: brute force, geometry

[PavelKunyavskiy's solution](#)

279.

17B

[Hierarchy](#) · [Tutorial](#)

Quality: 6,118 global accepts · Rating: 1500 · first AC: 2010-06-10 · GNU C++ (first AC) · Tags: dfs and similar, dsu, greedy, shortest paths

[PavelKunyavskiy's solution](#)

280.

10B

[Cinema Cashier](#) · [Tutorial](#)

Quality: 2,054 global accepts · Rating: 1500 · first AC: 2010-04-15 · GNU C++ (first AC) · Tags: dp, implementation

[PavelKunyavskiy's solution](#)

281.

2A

[Winner](#) · [Tutorial](#)

Quality: 31,225 global accepts · Rating: 1500 · first AC: 2010-02-25 · GNU C++ (first AC) · Tags: hashing, implementation

[PavelKunyavskiy's solution](#)

282.

1782C

[Equal Frequencies](#) · [Tutorial](#)

Rating: 1600 · first AC: 2023-01-15 · Kotlin 1.7 (first AC) · Tags: brute force, constructive algorithms, greedy, implementation, sortings, strings

[PavelKunyavskiy's solution](#)

283.

1615C

[Menorah](#) · [Tutorial](#)

Quality: 9,195 global accepts · Rating: 1600 · first AC: 2021-12-24 · Kotlin 1.5 (first AC) · Tags: brute force, graphs, greedy, math
[PavelKunyavskiy's solution](#)

284.

1290A

[Mind Control](#) · [Tutorial](#)

Quality: 8,901 global accepts · Rating: 1600 · first AC: 2020-02-02 · C++17 (GCC 7-32) (first AC) · Tags: brute force, data structures, implementation
[PavelKunyavskiy's solution](#)

285.

1284C

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

Quality: 8,740 global accepts · Rating: 1600 · first AC: 2020-01-04 · C++17 (GCC 7-32) (first AC) · Tags: combinatorics, math
[PavelKunyavskiy's solution](#)

286.

1198B

[Welfare State](#) · [Tutorial](#)

Quality: 9,988 global accepts · Rating: 1600 · first AC: 2019-07-30 · C++17 (GCC 7-32) (first AC) · Tags: binary search, brute force, data structures, sortings
[PavelKunyavskiy's solution](#)

287.

1198A

[MP3](#) · [Tutorial](#)

Quality: 10,133 global accepts · Rating: 1600 · first AC: 2019-07-30 · C++17 (GCC 7-32) (first AC) · Tags: sortings, two pointers
[PavelKunyavskiy's solution](#)

288.

1028C

[Rectangles](#) · [Tutorial](#)

Quality: 5,052 global accepts · Rating: 1600 · first AC: 2018-08-27 · C++14 (GCC 6-32) (first AC) · Tags: geometry, implementation, sortings
[PavelKunyavskiy's solution](#)

289.

1002B3

[Distinguish four 2-qubit states](#) · [Tutorial](#)

Quality: 421 global accepts · Rating: 1600 · first AC: 2018-07-07 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

290.

1002B2

[Distinguish GHZ state and W state](#) · [Tutorial](#)

Quality: 455 global accepts · Rating: 1600 · first AC: 2018-07-07 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

291.

986A

[Fair](#) · [Tutorial](#)

Quality: 8,331 global accepts · Rating: 1600 · first AC: 2018-05-29 · GNU C++11 (first AC) · Tags: graphs, greedy, number theory, shortest paths
[PavelKunyavskiy's solution](#)

292.

906A

[Shockers](#) · [Tutorial](#)

Quality: 4,420 global accepts · Rating: 1600 · first AC: 2017-12-23 · GNU C++11 (first AC) · Tags: implementation, strings
[PavelKunyavskiy's solution](#)

293.

759B

[Travel Card](#) · [Tutorial](#)

Rating: 1600 · first AC: 2017-01-22 · GNU C++11 (first AC) · Tags: binary search, dp, greedy, two pointers

[PavelKunyavskiy's solution](#)

294.

645C

[Enduring Exodus](#) · [Tutorial](#)

Quality: 4,303 global accepts · Rating: 1600 · first AC: 2016-03-18 · GNU C++11 (first AC) · Tags: binary search, two pointers

[PavelKunyavskiy's solution](#)

295.

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

[PavelKunyavskiy's solution](#)

296.

607A

[Chain Reaction](#) · [Tutorial](#)

Quality: 10,816 global accepts · Rating: 1600 · first AC: 2015-12-23 · GNU C++11 (first AC) · Tags: binary search, dp

[PavelKunyavskiy's solution](#)

297.

601A

[The Two Routes](#) · [Tutorial](#)

Quality: 13,874 global accepts · Rating: 1600 · first AC: 2015-11-24 · GNU C++11 (first AC) · Tags: graphs, shortest paths

[PavelKunyavskiy's solution](#)

298.

573B

[Bear and Blocks](#) · [Tutorial](#)

Quality: 6,352 global accepts · Rating: 1600 · first AC: 2015-08-29 · GNU C++11 (first AC) · Tags: binary search, data structures, dp, math

[PavelKunyavskiy's solution](#)

299.

444A

[DZY Loves Physics](#) · [Tutorial](#)

Quality: 3,578 global accepts · Rating: 1600 · first AC: 2014-07-06 · GNU C++ (first AC) · Tags: greedy, math

[PavelKunyavskiy's solution](#)

300.

407B

[Long Path](#) · [Tutorial](#)

Quality: 7,162 global accepts · Rating: 1600 · first AC: 2014-03-30 · GNU C++ (first AC) · Tags: dp, implementation

[PavelKunyavskiy's solution](#)

301.

407A

[Triangle](#) · [Tutorial](#)

Quality: 5,173 global accepts · Rating: 1600 · first AC: 2014-03-30 · GNU C++ (first AC) · Tags: brute force, geometry, implementation, math

[PavelKunyavskiy's solution](#)

302.

406A

[Unusual Product](#) · [Tutorial](#)

Rating: 1600 · first AC: 2014-03-22 · GNU C++ (first AC) · Tags: implementation, math

[PavelKunyavskiy's solution](#)

303.

383A

[Milking cows](#) · [Tutorial](#)

Quality: 5,570 global accepts · Rating: 1600 · first AC: 2014-01-20 · GNU C++ (first AC) · Tags: data structures, greedy

[PavelKunyavskiy's solution](#)

304.

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

[PavelKunyavskiy's solution](#)

305.

375B

[Maximum Submatrix 2](#) · [Tutorial](#)

Quality: 5,430 global accepts · Rating: 1600 · first AC: 2013-12-24 · last AC: 2013-12-24 · GNU C++ (first AC) · Tags: data structures, dp, implementation, sortings

[PavelKunyavskiy's solution](#)

306.

375A

[Divisible by Seven](#) · [Tutorial](#)

Quality: 5,343 global accepts · Rating: 1600 · first AC: 2013-12-24 · GNU C++ (first AC) · Tags: math, number theory

[PavelKunyavskiy's solution](#)

307.

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

[PavelKunyavskiy's solution](#)

308.

364A

[Matrix](#) · [Tutorial](#)

Quality: 4,957 global accepts · Rating: 1600 · first AC: 2013-11-19 · GNU C++ (first AC) · Tags: combinatorics, data structures, implementation

[PavelKunyavskiy's solution](#)

309.

346A

[Alice and Bob](#) · [Tutorial](#)

Quality: 9,351 global accepts · Rating: 1600 · first AC: 2013-09-20 · GNU C++ (first AC) · Tags: games, math, number theory

[PavelKunyavskiy's solution](#)

310.

343B

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

Quality: 17,288 global accepts · Rating: 1600 · first AC: 2013-09-14 · GNU C++ (first AC) · Tags: data structures, greedy, implementation

[PavelKunyavskiy's solution](#)

311.

343A

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

Quality: 10,082 global accepts · Rating: 1600 · first AC: 2013-09-14 · GNU C++ (first AC) · Tags: math, number theory

[PavelKunyavskiy's solution](#)

312.

341A

[Tourist Problem](#) · [Tutorial](#)

Rating: 1600 · first AC: 2013-08-30 · GNU C++ (first AC) · Tags: math

[PavelKunyavskiy's solution](#)

313.

333A

[Secrets](#) · [Tutorial](#)

Quality: 4,264 global accepts · Rating: 1600 · first AC: 2013-07-27 · GNU C++ (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

314.

319A

[Malek Dance Club](#) · [Tutorial](#)

Quality: 3,025 global accepts · Rating: 1600 · first AC: 2013-06-23 · GNU C++ (first AC) · Tags: combinatorics, math

[PavelKunyavskiy's solution](#)

315.

316B2

[EKG](#) · [Tutorial](#)

Quality: 1,780 global accepts · Rating: 1600 · first AC: 2013-06-12 · GNU C++ (first AC) · Tags: dfs and similar, dp

[PavelKunyavskiy's solution](#)

316.

314A

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

Quality: 2,172 global accepts · Rating: 1600 · first AC: 2013-06-07 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

317.

297B

[Fish Weight](#) · [Tutorial](#)

Quality: 3,766 global accepts · Rating: 1600 · first AC: 2013-04-19 · GNU C++ (first AC) · Tags: constructive algorithms, greedy

[PavelKunyavskiy's solution](#)

318.

291D

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

Quality: 1,539 global accepts · Rating: 1600 · first AC: 2013-04-13 · GNU C++ (first AC) · Tags: *special, greedy

[PavelKunyavskiy's solution](#)

319.

291C

[Network Mask](#) · [Tutorial](#)

Quality: 1,852 global accepts · Rating: 1600 · first AC: 2013-04-13 · GNU C++ (first AC) · Tags: *special, bitmasks, brute force, implementation

[PavelKunyavskiy's solution](#)

320.

273B

[Dima and Two Sequences](#) · [Tutorial](#)

Rating: 1600 · first AC: 2013-02-13 · GNU C++ (first AC) · Tags: combinatorics

[PavelKunyavskiy's solution](#)

321.

269A

[Magical Boxes](#) · [Tutorial](#)

Quality: 3,699 global accepts · Rating: 1600 · first AC: 2013-02-01 · GNU C++ (first AC) · Tags: greedy, math

[PavelKunyavskiy's solution](#)

322.

243A

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

Quality: 4,466 global accepts · Rating: 1600 · first AC: 2012-11-16 · GNU C++ (first AC) · Tags: bitmasks

[PavelKunyavskiy's solution](#)

323.

235A

[LCM Challenge](#) · [Tutorial](#)

Quality: 20,983 global accepts · Rating: 1600 · first AC: 2012-10-21 · GNU C++ (first AC) · Tags: number theory

[PavelKunyavskiy's solution](#)

324.

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

[PavelKunyavskiy's solution](#)

325.

188G

[Array Sorting](#) · [Tutorial](#)

Quality: 346 global accepts · Rating: 1600 · first AC: 2012-05-25 · Roco (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

326.

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

[PavelKunyavskiy's solution](#)

327.

153A

[A + B](#) · [Tutorial](#)

Quality: 948 global accepts · Rating: 1600 · first AC: 2012-02-22 · Cobol (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

328.

149B

[Martian Clock](#) · [Tutorial](#)

Quality: 2,390 global accepts · Rating: 1600 · first AC: 2012-02-12 · Java 6 (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

329.

142A

[Help Farmer](#) · [Tutorial](#)

Quality: 2,844 global accepts · Rating: 1600 · first AC: 2012-01-12 · GNU C++ (first AC) · Tags: brute force, math

[PavelKunyavskiy's solution](#)

330.

138A

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

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

[PavelKunyavskiy's solution](#)

331.

135B

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

Quality: 2,652 global accepts · Rating: 1600 · first AC: 2011-12-09 · GNU C++ (first AC) · Tags: brute force, geometry, math

[PavelKunyavskiy's solution](#)

332.

113A

[Grammar Lessons](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

333.

86A

[Reflection](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

334.

71C

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

Quality: 7,329 global accepts · Rating: 1600 · first AC: 2011-03-29 · GNU C++ (first AC) · Tags: dp, math, number theory

[PavelKunyavskiy's solution](#)

335.

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

[PavelKunyavskiy's solution](#)

336.

72H

[Reverse It!](#) · [Tutorial](#)

Quality: 284 global accepts · Rating: 1600 · first AC: 2011-03-20 · Io (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

337.

68B

[Energy exchange](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

338.

1B

[Spreadsheet](#) · [Tutorial](#)

Quality: 26,313 global accepts · Rating: 1600 · first AC: 2011-03-18 · GNU C++ (first AC) · Tags: implementation, math

[PavelKunyavskiy's solution](#)

339.

64C

[Table](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

340.

57B

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

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

[PavelKunyavskiy's solution](#)

341.

55B

[Smallest number](#) · [Tutorial](#)

Quality: 3,447 global accepts · Rating: 1600 · first AC: 2011-01-14 · GNU C++ (first AC) · Tags: brute force

[PavelKunyavskiy's solution](#)

342.

46C

[Hamsters and Tigers](#) · [Tutorial](#)

Quality: 2,877 global accepts · Rating: 1600 · first AC: 2010-12-05 · GNU C++ (first AC) · Tags: two pointers

[PavelKunyavskiy's solution](#)

343.

40B

[Repaintings](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

344.

34D

[Road Map](#) · [Tutorial](#)

Quality: 6,488 global accepts · Rating: 1600 · first AC: 2010-10-11 · GNU C++ (first AC) · Tags: dfs and similar, graphs

[PavelKunyavskiy's solution](#)

345.

32D

[Constellation](#) · [Tutorial](#)

Quality: 1,491 global accepts · Rating: 1600 · first AC: 2010-10-02 · last AC: 2010-10-02 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

346.

28B

[pSort](#) · [Tutorial](#)

Quality: 5,517 global accepts · Rating: 1600 · first AC: 2010-09-17 · GNU C++ (first AC) · Tags: dfs and similar, dsu, graphs

[PavelKunyavskiy's solution](#)

347.

28A

[Bender Problem](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

348.

7B

[Memory Manager](#) · [Tutorial](#)

Quality: 2,957 global accepts · Rating: 1600 · first AC: 2010-04-01 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

349.

1942C2

[Bessie's Birthday Cake \(Hard Version\)](#) · [Tutorial](#)

Quality: 6,874 global accepts · Rating: 1700 · first AC: 2024-03-30 · Kotlin 1.9 (first AC) · Tags: geometry, greedy, math

[PavelKunyavskiy's solution](#)

350.

1810D

[Climbing the Tree](#) · [Tutorial](#)

Quality: 8,541 global accepts · Rating: 1700 · first AC: 2023-03-31 · Kotlin 1.7 (first AC) · Tags: binary search, math

[PavelKunyavskiy's solution](#)

351.

1770C

[Koxia and Number Theory](#) · [Tutorial](#)

Quality: 9,664 global accepts · Rating: 1700 · first AC: 2022-12-30 · Kotlin 1.7 (first AC) · Tags: brute force, chinese remainder theorem, math, number theory

[PavelKunyavskiy's solution](#)

352.

1237C1

[Balanced Removals \(Easier\)](#) · [Tutorial](#)

Quality: 6,302 global accepts · Rating: 1700 · first AC: 2019-10-16 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, geometry, greedy

[PavelKunyavskiy's solution](#)

353.

1002C1

[Distinguish zero state and plus state with minimum error](#) · [Tutorial](#)

Quality: 309 global accepts · Rating: 1700 · first AC: 2018-07-07 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

354.

1002B4

[Distinguish four 2-qubit states - 2](#) · [Tutorial](#)

Quality: 317 global accepts · Rating: 1700 · first AC: 2018-07-07 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

355.

759A

[Pavel and barbecue](#) · [Tutorial](#)

Rating: 1700 · first AC: 2017-01-22 · GNU C++11 (first AC) · Tags: constructive algorithms, dfs and similar, dsu

[PavelKunyavskiy's solution](#)

356.

644B

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

Quality: 2,845 global accepts · Rating: 1700 · first AC: 2016-03-16 · GNU C++11 (first AC) · Tags: *special, constructive algorithms, data structures, two pointers

[PavelKunyavskiy's solution](#)

357.

627B

[Factory Repairs](#) · [Tutorial](#)

Quality: 3,402 global accepts · Rating: 1700 · first AC: 2016-02-28 · GNU C++11 (first AC) · Tags: data structures

[PavelKunyavskiy's solution](#)

358.

627A

[XOR Equation](#) · [Tutorial](#)

Quality: 4,798 global accepts · Rating: 1700 · first AC: 2016-02-28 · GNU C++11 (first AC) · Tags: dp, math

[PavelKunyavskiy's solution](#)

359.

590A

[Median Smoothing](#) · [Tutorial](#)

Quality: 4,283 global accepts · Rating: 1700 · first AC: 2015-10-25 · GNU C++11 (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

360.

582A

[GCD Table](#) · [Tutorial](#)

Quality: 8,346 global accepts · Rating: 1700 · first AC: 2015-10-03 · GNU C++11 (first AC) · Tags: constructive algorithms, greedy, number theory

[PavelKunyavskiy's solution](#)

361.

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

[PavelKunyavskiy's solution](#)

362.

406B

[Toy Sum](#) · [Tutorial](#)

Rating: 1700 · first AC: 2014-03-22 · GNU C++ (first AC) · Tags: constructive algorithms, greedy

[PavelKunyavskiy's solution](#)

363.

360A

[Levko and Array Recovery](#) · [Tutorial](#)

Quality: 2,140 global accepts · Rating: 1700 · first AC: 2013-11-10 · GNU C++ (first AC) · Tags: greedy, implementation

[PavelKunyavskiy's solution](#)

364.

331B1

[Shave Beaver!](#) · [Tutorial](#)

Quality: 808 global accepts · Rating: 1700 · first AC: 2013-07-17 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

365.

316G1

[Good Substrings](#) · [Tutorial](#)

Quality: 1,085 global accepts · Rating: 1700 · first AC: 2013-06-12 · GNU C++ (first AC) · Tags: hashing, strings

[PavelKunyavskiy's solution](#)

366.

303B

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

Quality: 1,424 global accepts · Rating: 1700 · first AC: 2013-05-12 · GNU C++ (first AC) · Tags: implementation, math

[PavelKunyavskiy's solution](#)

367.

297A

[Parity Game](#) · [Tutorial](#)

Quality: 3,860 global accepts · Rating: 1700 · first AC: 2013-04-19 · GNU C++ (first AC) · Tags: constructive algorithms

[PavelKunyavskiy's solution](#)

368.

295B

[Greg and Graph](#) · [Tutorial](#)

Quality: 17,658 global accepts · Rating: 1700 · first AC: 2013-04-11 · GNU C++ (first AC) · Tags: dp, graphs, shortest paths

[PavelKunyavskiy's solution](#)

369.

290C

[WTF?](#) · [Tutorial](#)

Quality: 1,672 global accepts · Rating: 1700 · first AC: 2013-04-01 · GNU C++ (first AC) · Tags: *special, graph matchings, implementation, trees

[PavelKunyavskiy's solution](#)

370.

269B

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

Quality: 6,991 global accepts · Rating: 1700 · first AC: 2013-02-01 · GNU C++ (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

371.

229B

[Planets](#) · [Tutorial](#)

Quality: 5,785 global accepts · Rating: 1700 · first AC: 2012-10-01 · GNU C++ (first AC) · Tags: binary search, data structures, graphs, shortest paths

[PavelKunyavskiy's solution](#)

372.

223A

[Bracket Sequence](#) · [Tutorial](#)

Quality: 2,806 global accepts · Rating: 1700 · first AC: 2012-09-16 · GNU C++ (first AC) · Tags: data structures, expression parsing, implementation

[PavelKunyavskiy's solution](#)

373.

201A

[Clear Symmetry](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

374.

198A

[About Bacteria](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

375.

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

[PavelKunyavskiy's solution](#)

376.

191B

[Demonstration](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

377.

176B

[Word Cut](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

378.

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

[PavelKunyavskiy's solution](#)

379.

163A

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

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

[PavelKunyavskiy's solution](#)

380.

161B

[Discounts](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

381.

156A

[Message](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

382.

140A

[New Year Table](#) · [Tutorial](#)

Quality: 4,368 global accepts · Rating: 1700 · first AC: 2012-01-04 · GNU C++ (first AC) · Tags: geometry, math

[PavelKunyavskiy's solution](#)

383.

126B

[Password](#) · [Tutorial](#)

Quality: 24,766 global accepts · Rating: 1700 · first AC: 2011-11-09 · GNU C++ (first AC) · Tags: binary search, dp, hashing, string suffix structures, strings

[PavelKunyavskiy's solution](#)

384.

118D

[Caesar's Legions](#) · [Tutorial](#)

Quality: 20,473 global accepts · Rating: 1700 · first AC: 2011-10-07 · GNU C++ (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

385.

93A

[Frames](#) · [Tutorial](#)

Quality: 2,072 global accepts · Rating: 1700 · first AC: 2011-06-30 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

386.

63C

[Bulls and Cows](#) · [Tutorial](#)

Quality: 2,002 global accepts · Rating: 1700 · first AC: 2011-02-28 · GNU C++ (first AC) · Tags: brute force, implementation

[PavelKunyavskiy's solution](#)

387.

51B

[bHTML Tables Analysis](#) · [Tutorial](#)

Quality: 1,046 global accepts · Rating: 1700 · first AC: 2010-12-28 · GNU C++ (first AC) · Tags: expression parsing

[PavelKunyavskiy's solution](#)

388.

49C

[Disposition](#) · [Tutorial](#)

Quality: 1,867 global accepts · Rating: 1700 · first AC: 2010-12-17 · GNU C++ (first AC) · Tags: constructive algorithms, math

[PavelKunyavskiy's solution](#)

389.

44H

[Phone Number](#) · [Tutorial](#)

Quality: 2,003 global accepts · Rating: 1700 · first AC: 2010-11-06 · GNU C++ (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

390.

32C

[Flea](#) · [Tutorial](#)

Quality: 2,563 global accepts · Rating: 1700 · first AC: 2010-10-02 · last AC: 2010-10-02 · GNU C++ (first AC) · Tags: math

[PavelKunyavskiy's solution](#)

391.

30B

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

Quality: 1,387 global accepts · Rating: 1700 · first AC: 2010-09-24 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

392.

18B

[Platforms](#) · [Tutorial](#)

Quality: 2,428 global accepts · Rating: 1700 · first AC: 2010-06-16 · GNU C++ (first AC) · Tags: brute force, math

[PavelKunyavskiy's solution](#)

393.

14C

[Four Segments](#) · [Tutorial](#)

Quality: 3,858 global accepts · Rating: 1700 · first AC: 2010-05-19 · GNU C++ (first AC) · Tags: brute force, constructive algorithms, geometry, implementation, math

[PavelKunyavskiy's solution](#)

394.

1949I

[Disks](#) · [Tutorial](#)

Quality: 2,755 global accepts · Rating: 1800 · first AC: 2024-03-24 · last AC: 2025-02-21 · Rust 2021 (first AC) · Tags: dfs and similar, geometry, graph matchings, graphs

[PavelKunyavskiy's solution](#)

395.

1852B

[Imbalanced Arrays](#) · [Tutorial](#)

Quality: 5,460 global accepts · Rating: 1800 · first AC: 2023-07-23 · Kotlin 1.7 (first AC) · Tags: constructive algorithms, graphs, greedy, math, sortings, two pointers

[PavelKunyavskiy's solution](#)

396.

1852A

[Ntarsis' Set](#) · [Tutorial](#)

Quality: 9,239 global accepts · Rating: 1800 · first AC: 2023-07-23 · Kotlin 1.7 (first AC) · Tags: binary search, math, number theory

[PavelKunyavskiy's solution](#)

397.

1782D

[Many Perfect Squares](#) · [Tutorial](#)

Rating: 1800 · first AC: 2023-01-15 · Kotlin 1.7 (first AC) · Tags: brute force, dp, math, number theory

[PavelKunyavskiy's solution](#)

398.

1488B

[RBS Deletion](#) · [Tutorial](#)

Quality: 600 global accepts · Rating: 1800 · first AC: 2021-03-09 · Kotlin 1.4 (first AC) · Tags: *special, greedy

[PavelKunyavskiy's solution](#)

399.

1394A

[Boboniu Chats with Du](#) · [Tutorial](#)

Quality: 7,122 global accepts · Rating: 1800 · first AC: 2020-08-12 · C++17 (GCC 7-32) (first AC) · Tags: dp, greedy, sortings, two pointers

[PavelKunyavskiy's solution](#)

400.

1326D2

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

Quality: 11,755 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

[PavelKunyavskiy's solution](#)

401.

1290B

[Irreducible Anagrams](#) · [Tutorial](#)

Quality: 7,156 global accepts · Rating: 1800 · first AC: 2020-02-02 · C++17 (GCC 7-32) (first AC) · Tags: binary search, constructive algorithms, data structures, strings, two pointers

[PavelKunyavskiy's solution](#)

402.

986B

[Petr and Permutations](#) · [Tutorial](#)

Quality: 5,054 global accepts · Rating: 1800 · first AC: 2018-05-29 · GNU C++11 (first AC) · Tags: combinatorics, math

[PavelKunyavskiy's solution](#)

403.

799C

[Fountains](#) · [Tutorial](#)

Quality: 4,054 global accepts · Rating: 1800 · first AC: 2017-05-11 · GNU C++11 (first AC) · Tags: binary search, data structures, implementation

[PavelKunyavskiy's solution](#)

404.

645D

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

Quality: 3,340 global accepts · Rating: 1800 · first AC: 2016-03-18 · GNU C++11 (first AC) · Tags: binary search, dp, graphs

[PavelKunyavskiy's solution](#)

405.

626D

[Jerry's Protest](#) · [Tutorial](#)

Quality: 3,160 global accepts · Rating: 1800 · first AC: 2016-02-13 · GNU C++11 (first AC) · Tags: brute force, combinatorics, dp, probabilities

[PavelKunyavskiy's solution](#)

406.

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

[PavelKunyavskiy's solution](#)

407.

528B

[Clique Problem](#) · [Tutorial](#)

Rating: 1800 · first AC: 2015-03-17 · GNU C++0x (first AC) · Tags: dp, greedy

[PavelKunyavskiy's solution](#)

408.

513G1

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

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

[PavelKunyavskiy's solution](#)

409.

513B2

[Permutations](#) · [Tutorial](#)

Quality: 2,930 global accepts · Rating: 1800 · first AC: 2015-02-07 · GNU C++0x (first AC) · Tags: bitmasks, divide and conquer, math

[PavelKunyavskiy's solution](#)

410.

482B

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

Quality: 7,729 global accepts · Rating: 1800 · first AC: 2014-10-24 · GNU C++0x (first AC) · Tags: constructive algorithms, data structures, trees

[PavelKunyavskiy's solution](#)

411.

470B

[Hexakosioihexekontahexaphobia](#) · [Tutorial](#)

Quality: 271 global accepts · Rating: 1800 · first AC: 2014-09-13 · FALSE (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

412.

442B

[Andrey and Problem](#) · [Tutorial](#)

Quality: 6,110 global accepts · Rating: 1800 · first AC: 2014-06-19 · GNU C++ (first AC) · Tags: greedy, math, probabilities

[PavelKunyavskiy's solution](#)

413.

436C

[Dungeons and Candies](#) · [Tutorial](#)

Quality: 2,887 global accepts · Rating: 1800 · first AC: 2014-06-13 · GNU C++ (first AC) · Tags: dsu, graphs, greedy, trees

[PavelKunyavskiy's solution](#)

414.

351A

[Jeff and Rounding](#) · [Tutorial](#)

Quality: 3,097 global accepts · Rating: 1800 · first AC: 2013-10-04 · GNU C++ (first AC) · Tags: dp, greedy, implementation, math

[PavelKunyavskiy's solution](#)

415.

333B

[Chips](#) · [Tutorial](#)

Quality: 2,762 global accepts · Rating: 1800 · first AC: 2013-07-27 · GNU C++ (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

416.

301A

[Yaroslav and Sequence](#) · [Tutorial](#)

Quality: 3,256 global accepts · Rating: 1800 · first AC: 2013-05-05 · GNU C++ (first AC) · Tags: constructive algorithms

[PavelKunyavskiy's solution](#)

417.

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

[PavelKunyavskiy's solution](#)

418.

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

[PavelKunyavskiy's solution](#)

419.

251B

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

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

[PavelKunyavskiy's solution](#)

420.

238B

[Boring Partition](#) · [Tutorial](#)

Quality: 1,420 global accepts · Rating: 1800 · first AC: 2012-11-04 · GNU C++ (first AC) · Tags: constructive algorithms

[PavelKunyavskiy's solution](#)

421.

220B

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

Quality: 12,883 global accepts · Rating: 1800 · first AC: 2012-08-31 · GNU C++ (first AC) · Tags: constructive algorithms, data structures

[PavelKunyavskiy's solution](#)

422.

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

[PavelKunyavskiy's solution](#)

423.

188H

[Stack](#) · [Tutorial](#)

Quality: 686 global accepts · Rating: 1800 · first AC: 2012-05-25 · Roco (first AC) · Tags: *special, expression parsing, implementation

[PavelKunyavskiy's solution](#)

424.

190B

[Surrounded](#) · [Tutorial](#)

Quality: 3,092 global accepts · Rating: 1800 · first AC: 2012-05-16 · Java 6 (first AC) · Tags: geometry

[PavelKunyavskiy's solution](#)

425.

187B

[AlgoRace](#) · [Tutorial](#)

Quality: 2,344 global accepts · Rating: 1800 · first AC: 2012-05-10 · GNU C++ (first AC) · Tags: dp, shortest paths

[PavelKunyavskiy's solution](#)

426.

185B

[Mushroom Scientists](#) · [Tutorial](#)

Quality: 1,786 global accepts · Rating: 1800 · first AC: 2012-05-04 · GNU C++ (first AC) · Tags: math, ternary search

[PavelKunyavskiy's solution](#)

427.

162C

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

Quality: 1,385 global accepts · Rating: 1800 · first AC: 2012-03-18 · Factor (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

428.

162E

[HQ9+](#) · [Tutorial](#)

Quality: 185 global accepts · Rating: 1800 · first AC: 2012-03-18 · Factor (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

429.

162F

[Factorial zeros](#) · [Tutorial](#)

Quality: 229 global accepts · Rating: 1800 · first AC: 2012-03-18 · Factor (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

430.

162B

[Binary notation](#) · [Tutorial](#)

Quality: 326 global accepts · Rating: 1800 · first AC: 2012-03-18 · Factor (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

431.

161D

[Distance in Tree](#) · [Tutorial](#)

Quality: 19,177 global accepts · Rating: 1800 · first AC: 2012-03-11 · GNU C++ (first AC) · Tags: dfs and similar, dp, trees

[PavelKunyavskiy's solution](#)

432.

153B

[Binary notation](#) · [Tutorial](#)

Quality: 166 global accepts · Rating: 1800 · first AC: 2012-02-22 · Cobol (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

433.

145B

[Lucky Number 2](#) · [Tutorial](#)

Quality: 2,422 global accepts · Rating: 1800 · first AC: 2012-01-22 · GNU C++ (first AC) · Tags: constructive algorithms

[PavelKunyavskiy's solution](#)

434.

142B

[Help General](#) · [Tutorial](#)

Quality: 2,405 global accepts · Rating: 1800 · first AC: 2012-01-12 · GNU C++ (first AC) · Tags: constructive algorithms, greedy, implementation

[PavelKunyavskiy's solution](#)

435.

140D

[New Year Contest](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

436.

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

[PavelKunyavskiy's solution](#)

437.

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

[PavelKunyavskiy's solution](#)

438.

117B

[Very Interesting Game](#) · [Tutorial](#)

Quality: 1,743 global accepts · Rating: 1800 · first AC: 2011-09-23 · GNU C++ (first AC) · Tags: brute force, number theory

[PavelKunyavskiy's solution](#)

439.

89A

[Robbery](#) · [Tutorial](#)

Quality: 1,613 global accepts · Rating: 1800 · first AC: 2011-06-16 · GNU C++ (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

440.

85B

[Embassy Queue](#) · [Tutorial](#)

Quality: 1,081 global accepts · Rating: 1800 · first AC: 2011-05-20 · GNU C++ (first AC) · Tags: data structures, greedy

[PavelKunyavskiy's solution](#)

441.

83B

[Doctor](#) · [Tutorial](#)

Quality: 1,892 global accepts · Rating: 1800 · first AC: 2011-05-13 · GNU C++ (first AC) · Tags: binary search, math, sortings

[PavelKunyavskiy's solution](#)

442.

77B

[Falling Anvils](#) · [Tutorial](#)

Quality: 2,867 global accepts · Rating: 1800 · first AC: 2011-04-21 · GNU C++ (first AC) · Tags: math, probabilities

[PavelKunyavskiy's solution](#)

443.

48C

[The Race](#) · [Tutorial](#)

Quality: 856 global accepts · Rating: 1800 · first AC: 2011-03-23 · GNU C++ (first AC) · Tags: math

[PavelKunyavskiy's solution](#)

444.

69E

[Subsegments](#) · [Tutorial](#)

Quality: 5,086 global accepts · Rating: 1800 · first AC: 2011-03-22 · GNU C++ (first AC) · Tags: data structures, implementation

[PavelKunyavskiy's solution](#)

445.

72E

[Ali goes shopping](#) · [Tutorial](#)

Quality: 181 global accepts · Rating: 1800 · first AC: 2011-03-20 · lo (first AC) · Tags: *special, brute force, strings

[PavelKunyavskiy's solution](#)

446.

72A

[Goshtasp, Vishtasp and Eidi](#) · [Tutorial](#)

Quality: 194 global accepts · Rating: 1800 · first AC: 2011-03-20 · Io (first AC) · Tags: *special, greedy, math

[PavelKunyavskiy's solution](#)

447.

67A

[Partial Teacher](#) · [Tutorial](#)

Quality: 2,481 global accepts · Rating: 1800 · first AC: 2011-03-13 · GNU C++ (first AC) · Tags: dp, graphs, greedy, implementation

[PavelKunyavskiy's solution](#)

448.

67B

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

Quality: 944 global accepts · Rating: 1800 · first AC: 2011-03-13 · GNU C++ (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

449.

62B

[Tyndex.Brome](#) · [Tutorial](#)

Quality: 1,403 global accepts · Rating: 1800 · first AC: 2011-02-25 · GNU C++ (first AC) · Tags: binary search, implementation

[PavelKunyavskiy's solution](#)

450.

61D

[Eternal Victory](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

451.

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

[PavelKunyavskiy's solution](#)

452.

64D

[Presents](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

453.

58C

[Trees](#) · [Tutorial](#)

Quality: 2,264 global accepts · Rating: 1800 · first AC: 2011-01-31 · GNU C++ (first AC) · Tags: brute force

[PavelKunyavskiy's solution](#)

454.

54B

[Cutting Jigsaw Puzzle](#) · [Tutorial](#)

Quality: 909 global accepts · Rating: 1800 · first AC: 2011-01-11 · GNU C++ (first AC) · Tags: hashing, implementation

[PavelKunyavskiy's solution](#)

455.

51C

[Three Base Stations](#) · [Tutorial](#)

Quality: 2,912 global accepts · Rating: 1800 · first AC: 2010-12-28 · GNU C++ (first AC) · Tags: binary search, greedy

[PavelKunyavskiy's solution](#)

456.

49D

[Game](#) · [Tutorial](#)

Quality: 2,136 global accepts · Rating: 1800 · first AC: 2010-12-17 · GNU C++ (first AC) · Tags: brute force, dp, implementation

[PavelKunyavskiy's solution](#)

457.

46D

[Parking Lot](#) · [Tutorial](#)

Quality: 1,094 global accepts · Rating: 1800 · first AC: 2010-12-05 · GNU C++ (first AC) · Tags: data structures, implementation

[PavelKunyavskiy's solution](#)

458.

45J

[Planting Trees](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

459.

44D

[Hyperdrive](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

460.

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

[PavelKunyavskiy's solution](#)

461.

37B

[Computer Game](#) · [Tutorial](#)

Quality: 1,095 global accepts · Rating: 1800 · first AC: 2010-10-25 · GNU C++ (first AC) · Tags: greedy, implementation

[PavelKunyavskiy's solution](#)

462.

33C

[Wonderful Randomized Sum](#) · [Tutorial](#)

Quality: 3,579 global accepts · Rating: 1800 · first AC: 2010-10-07 · GNU C++ (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

463.

33B

[String Problem](#) · [Tutorial](#)

Quality: 5,722 global accepts · Rating: 1800 · first AC: 2010-10-07 · GNU C++ (first AC) · Tags: shortest paths

[PavelKunyavskiy's solution](#)

464.

30C

[Shooting Gallery](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

465.

24C

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

Quality: 1,448 global accepts · Rating: 1800 · first AC: 2010-07-26 · last AC: 2010-07-30 · MS C++ (first AC) · Tags: geometry, implementation, math

[PavelKunyavskiy's solution](#)

466.

16C

[Monitor](#) · [Tutorial](#)

Quality: 5,417 global accepts · Rating: 1800 · first AC: 2010-06-03 · GNU C++ (first AC) · Tags: binary search, number theory

[PavelKunyavskiy's solution](#)

467.

15B

[Laser](#) · [Tutorial](#)

Quality: 1,680 global accepts · Rating: 1800 · first AC: 2010-05-29 · GNU C++ (first AC) · Tags: math

[PavelKunyavskiy's solution](#)

468.

7C

[Line](#) · [Tutorial](#)

Quality: 5,480 global accepts · Rating: 1800 · first AC: 2010-04-01 · GNU C++ (first AC) · Tags: math, number theory

[PavelKunyavskiy's solution](#)

469.

2068F

[Mascot Naming](#) · [Tutorial](#)

Quality: 1,483 global accepts · Rating: 1900 · first AC: 2026-01-04 · Kotlin 2.2 (first AC) · Tags: brute force, greedy, implementation, strings

[PavelKunyavskiy's solution](#)

470.

2129C1

[Interactive RBS \(Easy Version\)](#) · [Tutorial](#)

Quality: 3,858 global accepts · Rating: 1900 · first AC: 2025-08-07 · Java 21 (first AC) · Tags: binary search, bitmasks, constructive algorithms, interactive

[PavelKunyavskiy's solution](#)

471.

1949C

[Annual Ants' Gathering](#) · [Tutorial](#)

Quality: 2,527 global accepts · Rating: 1900 · first AC: 2024-03-24 · C++17 (GCC 7-32) (first AC) · Tags: dfs and similar, dp, greedy, trees

[PavelKunyavskiy's solution](#)

472.

1746D

[Paths on the Tree](#) · [Tutorial](#)

Quality: 5,115 global accepts · Rating: 1900 · first AC: 2022-10-15 · Kotlin 1.6 (first AC) · Tags: dfs and similar, dp, greedy, sortings, trees

[PavelKunyavskiy's solution](#)

473.

1738D

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

Quality: 3,746 global accepts · Rating: 1900 · first AC: 2022-09-30 · Kotlin 1.6 (first AC) · Tags: constructive algorithms, data structures, dfs and similar, dsu, graphs, trees

[PavelKunyavskiy's solution](#)

474.

1704D

[Magical Array](#) · [Tutorial](#)

Quality: 5,380 global accepts · Rating: 1900 · first AC: 2022-07-31 · Kotlin 1.6 (first AC) · Tags: constructive algorithms, hashing, implementation, math

[PavelKunyavskiy's solution](#)

475.

1696D

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

Quality: 6,014 global accepts · Rating: 1900 · first AC: 2022-06-25 · Kotlin 1.6 (first AC) · Tags: binary search, constructive algorithms, data structures, divide and conquer, greedy, shortest paths

[PavelKunyavskiy's solution](#)

476.

1488D

[Problemsolving Marathon](#) · [Tutorial](#)

Quality: 360 global accepts · Rating: 1900 · first AC: 2021-03-09 · Kotlin 1.4 (first AC) · Tags: *special, binary search, greedy

[PavelKunyavskiy's solution](#)

477.

1488C

[Two Policemen](#) · [Tutorial](#)

Quality: 478 global accepts · Rating: 1900 · first AC: 2021-03-09 · Kotlin 1.4 (first AC) · Tags: *special, binary search, brute force, math

[PavelKunyavskiy's solution](#)

478.

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

[PavelKunyavskiy's solution](#)

479.

1237C2

[Balanced Removals \(Harder\)](#) · [Tutorial](#)

Quality: 4,534 global accepts · Rating: 1900 · first AC: 2019-10-16 · C++17 (GCC 7-32) (first AC) · Tags: binary search, constructive algorithms, divide and conquer, greedy, implementation, sortings

[PavelKunyavskiy's solution](#)

480.

981D

[Bookshelves](#) · [Tutorial](#)

Quality: 3,548 global accepts · Rating: 1900 · first AC: 2018-05-27 · GNU C++11 (first AC) · Tags: bitmasks, dp, greedy

[PavelKunyavskiy's solution](#)

481.

866B

[Ordering Pizza](#) · [Tutorial](#)

Rating: 1900 · first AC: 2017-09-30 · GNU C++11 (first AC) · Tags: greedy, implementation, sortings

[PavelKunyavskiy's solution](#)

482.

744B

[Hongcow's Game](#) · [Tutorial](#)

Quality: 1,957 global accepts · Rating: 1900 · first AC: 2016-12-17 · GNU C++11 (first AC) · Tags: bitmasks, divide and conquer, interactive

[PavelKunyavskiy's solution](#)

483.

731F

[Video Cards](#) · [Tutorial](#)

Quality: 3,143 global accepts · Rating: 1900 · first AC: 2016-10-16 · last AC: 2016-10-16 · GNU C++11 (first AC) · Tags: brute force, data structures, implementation, math, number theory

[PavelKunyavskiy's solution](#)

484.

708B

[Recover the String](#) · [Tutorial](#)

Quality: 3,440 global accepts · Rating: 1900 · first AC: 2016-08-24 · GNU C++11 (first AC) · Tags: constructive algorithms, greedy, implementation, math

[PavelKunyavskiy's solution](#)

485.

633C

[Spy Syndrome 2](#) · [Tutorial](#)

Quality: 3,376 global accepts · Rating: 1900 · first AC: 2016-02-27 · GNU C++11 (first AC) · Tags: data structures, dp, hashing, implementation, sortings, string suffix structures, strings

[PavelKunyavskiy's solution](#)

486.

613B

[Skills](#) · [Tutorial](#)

Quality: 2,476 global accepts · Rating: 1900 · first AC: 2016-01-14 · last AC: 2016-01-14 · GNU C++11 (first AC) · Tags: binary search, brute force, dp, greedy, sortings, two pointers

[PavelKunyavskiy's solution](#)

487.

613A

[Peter and Snow Blower](#) · [Tutorial](#)

Quality: 3,429 global accepts · Rating: 1900 · first AC: 2016-01-14 · GNU C++11 (first AC) · Tags: binary search, geometry, ternary search

[PavelKunyavskiy's solution](#)

488.

607B

[Zuma](#) · [Tutorial](#)

Quality: 16,310 global accepts · Rating: 1900 · first AC: 2015-12-23 · GNU C++11 (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

489.

582B

[Once Again...](#) · [Tutorial](#)

Quality: 3,643 global accepts · Rating: 1900 · first AC: 2015-10-03 · GNU C++11 (first AC) · Tags: constructive algorithms, dp, matrices

[PavelKunyavskiy's solution](#)

490.

549D

[Haar Features](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

491.

472D

[Design Tutorial: Inverse the Problem](#) · [Tutorial](#)

Quality: 6,525 global accepts · Rating: 1900 · first AC: 2014-09-28 · GNU C++0x (first AC) · Tags: dfs and similar, dsu, shortest paths, trees

[PavelKunyavskiy's solution](#)

492.

470D

[Caesar Cipher](#) · [Tutorial](#)

Quality: 157 global accepts · Rating: 1900 · first AC: 2014-09-13 · FALSE (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

493.

470C

[Eval](#) · [Tutorial](#)

Quality: 262 global accepts · Rating: 1900 · first AC: 2014-09-13 · FALSE (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

494.

470E

[Chessboard](#) · [Tutorial](#)

Quality: 205 global accepts · Rating: 1900 · first AC: 2014-09-13 · FALSE (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

495.

438B

[The Child and Zoo](#) · [Tutorial](#)

Rating: 1900 · first AC: 2014-06-01 · GNU C++ (first AC) · Tags: dp, dsu, sortings

[PavelKunyavskiy's solution](#)

496.

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

[PavelKunyavskiy's solution](#)

497.

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

[PavelKunyavskiy's solution](#)

498.

367B

[Sereja ans Anagrams](#) · [Tutorial](#)

Quality: 2,680 global accepts · Rating: 1900 · first AC: 2013-11-26 · GNU C++ (first AC) · Tags: binary search, data structures

[PavelKunyavskiy's solution](#)

499.

356B

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

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

[PavelKunyavskiy's solution](#)

500.

351B

[Jeff and Furik](#) · [Tutorial](#)

Quality: 2,724 global accepts · Rating: 1900 · first AC: 2013-10-04 · GNU C++ (first AC) · Tags: combinatorics, dp, probabilities

[PavelKunyavskiy's solution](#)

501.

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

[PavelKunyavskiy's solution](#)

502.

331B2

[Shave Beaver!](#) · [Tutorial](#)

Quality: 831 global accepts · Rating: 1900 · first AC: 2013-07-17 · GNU C++ (first AC) · Tags: data structures

[PavelKunyavskiy's solution](#)

503.

226B

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

Quality: 1,709 global accepts · Rating: 1900 · first AC: 2013-07-17 · last AC: 2013-07-17 · GNU C++ (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

504.

319B

[Psychos in a Line](#) · [Tutorial](#)

Quality: 4,746 global accepts · Rating: 1900 · first AC: 2013-06-23 · GNU C++ (first AC) · Tags: data structures, implementation

[PavelKunyavskiy's solution](#)

505.

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

[PavelKunyavskiy's solution](#)

506.

292E

[Copying Data](#) · [Tutorial](#)

Quality: 4,883 global accepts · Rating: 1900 · first AC: 2013-04-15 · GNU C++ (first AC) · Tags: data structures

[PavelKunyavskiy's solution](#)

507.

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

[PavelKunyavskiy's solution](#)

508.

241G

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

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

[PavelKunyavskiy's solution](#)

509.

232B

[Table](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

510.

229C

[Triangles](#) · [Tutorial](#)

Quality: 1,783 global accepts · Rating: 1900 · first AC: 2012-10-01 · GNU C++ (first AC) · Tags: combinatorics, graphs, math

[PavelKunyavskiy's solution](#)

511.

223B

[Two Strings](#) · [Tutorial](#)

Quality: 2,034 global accepts · Rating: 1900 · first AC: 2012-09-16 · GNU C++ (first AC) · Tags: data structures, dp, strings

[PavelKunyavskiy's solution](#)

512.

223C

[Partial Sums](#) · [Tutorial](#)

Quality: 1,755 global accepts · Rating: 1900 · first AC: 2012-09-16 · GNU C++ (first AC) · Tags: combinatorics, math, number theory

[PavelKunyavskiy's solution](#)

513.

191C

[Fools and Roads](#) · [Tutorial](#)

Quality: 9,222 global accepts · Rating: 1900 · first AC: 2012-05-27 · GNU C++ (first AC) · Tags: data structures, dfs and similar, trees

[PavelKunyavskiy's solution](#)

514.

173C

[Spiral Maximum](#) · [Tutorial](#)

Quality: 1,112 global accepts · Rating: 1900 · first AC: 2012-04-06 · GNU C++ (first AC) · Tags: brute force, dp

[PavelKunyavskiy's solution](#)

515.

162D

[Remove digits](#) · [Tutorial](#)

Quality: 232 global accepts · Rating: 1900 · first AC: 2012-03-18 · Factor (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

516.

158E

[Phone Talks](#) · [Tutorial](#)

Quality: 1,538 global accepts · Rating: 1900 · first AC: 2012-03-04 · GNU C++ (first AC) · Tags: *special, dp, sortings

[PavelKunyavskiy's solution](#)

517.

149D

[Coloring Brackets](#) · [Tutorial](#)

Quality: 4,611 global accepts · Rating: 1900 · first AC: 2012-02-10 · Java 6 (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

518.

138B

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

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

[PavelKunyavskiy's solution](#)

519.

135C

[Zero-One](#) · [Tutorial](#)

Quality: 1,448 global accepts · Rating: 1900 · first AC: 2011-12-09 · GNU C++ (first AC) · Tags: constructive algorithms, games, greedy

[PavelKunyavskiy's solution](#)

520.

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

[PavelKunyavskiy's solution](#)

521.

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
[PavelKunyavskiy's solution](#)

522.

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
[PavelKunyavskiy's solution](#)

523.

109C

[Lucky Tree](#) · [Tutorial](#)

Quality: 4,119 global accepts · Rating: 1900 · first AC: 2011-08-29 · GNU C++ (first AC) · Tags: dp, dsu, trees
[PavelKunyavskiy's solution](#)

524.

109B

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

Quality: 1,780 global accepts · Rating: 1900 · first AC: 2011-08-29 · GNU C++ (first AC) · Tags: brute force, probabilities
[PavelKunyavskiy's solution](#)

525.

93B

[End of Exams](#) · [Tutorial](#)

Quality: 988 global accepts · Rating: 1900 · first AC: 2011-06-30 · GNU C++ (first AC) · Tags: greedy
[PavelKunyavskiy's solution](#)

526.

69D

[Dot](#) · [Tutorial](#)

Quality: 1,130 global accepts · Rating: 1900 · first AC: 2011-03-22 · GNU C++ (first AC) · Tags: dp, games
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527.

72F

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Quality: 143 global accepts · Rating: 1900 · first AC: 2011-03-20 · Io (first AC) · Tags: *special, greedy, math
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528.

67D

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Quality: 1,777 global accepts · Rating: 1900 · first AC: 2011-03-13 · GNU C++ (first AC) · Tags: binary search, data structures, dp
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529.

63D

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Quality: 1,447 global accepts · Rating: 1900 · first AC: 2011-02-28 · GNU C++ (first AC) · Tags: constructive algorithms
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530.

61E

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Quality: 15,175 global accepts · Rating: 1900 · first AC: 2011-02-22 · GNU C++ (first AC) · Tags: data structures, trees
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531.

57C

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Quality: 4,006 global accepts · Rating: 1900 · first AC: 2011-01-25 · GNU C++ (first AC) · Tags: combinatorics, math
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532.

55C

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Quality: 1,828 global accepts · Rating: 1900 · first AC: 2011-01-14 · GNU C++ (first AC) · Tags: games

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533.

46E

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534.

45C

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535.

45D

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

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536.

41E

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Quality: 2,226 global accepts · Rating: 1900 · first AC: 2010-11-08 · GNU C++ (first AC) · Tags: constructive algorithms, graphs, greedy

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537.

41D

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Quality: 2,897 global accepts · Rating: 1900 · first AC: 2010-11-08 · GNU C++ (first AC) · Tags: dp

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538.

38D

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Quality: 1,075 global accepts · Rating: 1900 · first AC: 2010-10-30 · last AC: 2010-10-31 · GNU C++ (first AC) · Tags: implementation

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539.

37C

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Quality: 2,153 global accepts · Rating: 1900 · first AC: 2010-10-25 · GNU C++ (first AC) · Tags: data structures, greedy, trees

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540.

21A

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Quality: 2,271 global accepts · Rating: 1900 · first AC: 2010-06-28 · GNU C++ (first AC) · Tags: implementation, strings

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541.

19B

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Quality: 5,823 global accepts · Rating: 1900 · first AC: 2010-06-24 · GNU C++ (first AC) · Tags: dp

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542.

16D

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543.

16E

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Quality: 6,541 global accepts · Rating: 1900 · first AC: 2010-06-03 · GNU C++ (first AC) · Tags: bitmasks, dp, probabilities

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544.

14D

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545.

14E

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Quality: 2,061 global accepts · Rating: 1900 · first AC: 2010-05-19 · GNU C++ (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

546.

2068J

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547.

1804D

[Accommodation](#) · [Tutorial](#)

Quality: 5,269 global accepts · Rating: 2000 · first AC: 2023-03-12 · Kotlin 1.7 (first AC) · Tags: brute force, dp, greedy, implementation

[PavelKunyavskiy's solution](#)

548.

1770D

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Quality: 4,394 global accepts · Rating: 2000 · first AC: 2022-12-30 · Kotlin 1.7 (first AC) · Tags: constructive algorithms, data structures, dfs and similar, dsu, flows, games, graph matchings, graphs, implementation

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549.

1696E

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Quality: 4,908 global accepts · Rating: 2000 · first AC: 2022-06-25 · Kotlin 1.6 (first AC) · Tags: combinatorics, math

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550.

1427D

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551.

1427C

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Quality: 6,070 global accepts · Rating: 2000 · first AC: 2020-10-10 · C++17 (GCC 7-32) (first AC) · Tags: dp

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552.

1237D

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553.

1198C

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662D

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Quality: 1,715 global accepts · Rating: 2000 · first AC: 2016-04-15 · GNU C++11 (first AC) · Tags: constructive algorithms, greedy, implementation, math

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555.

633D

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556.

571B

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557.

526C

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558.

513C

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559.

487B

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560.

475D

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Quality: 6,510 global accepts · Rating: 2000 · first AC: 2014-10-05 · GNU C++0x (first AC) · Tags: brute force, data structures, math

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561.

468B

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562.

388C

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565.

367C

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360B

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Quality: 3,493 global accepts · Rating: 2000 · first AC: 2013-11-10 · GNU C++ (first AC) · Tags: binary search, dp
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346B

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345C

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569.

341C

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314C

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314B

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291E

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264C

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575.

261C

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576.

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577.

243B

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578.

241C

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235B

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580.

204C

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196B

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582.

193B

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583.

176C

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584.

164B

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585.

156C

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586.

153D

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587.

126C

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588.

119C

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589.

118E

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590.

117C

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Quality: 2,962 global accepts · Rating: 2000 · first AC: 2011-09-23 · GNU C++ (first AC) · Tags: dfs and similar, graphs

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591.

113B

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592.

109D

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593.

82D

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594.

82C

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595.

69C

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Quality: 674 global accepts · Rating: 2000 · first AC: 2011-03-22 · GNU C++ (first AC) · Tags: implementation

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596.

63E

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597.

61C

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598.

64F

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599.

58D

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600.

54C

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601.

50C

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602.

43D

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603.

45E

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604.

44J

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605.

39A

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606.

39E

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607.

34E

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608.

33D

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609.

26C

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[PavelKunyavskiy's solution](#)

610.

21C

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Quality: 2,539 global accepts · Rating: 2000 · first AC: 2010-06-28 · GNU C++ (first AC) · Tags: binary search, dp, sortings

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611.

21B

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Quality: 1,583 global accepts · Rating: 2000 · first AC: 2010-06-28 · GNU C++ (first AC) · Tags: implementation, math

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612.

18D

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Quality: 1,290 global accepts · Rating: 2000 · first AC: 2010-06-16 · last AC: 2010-06-16 · GNU C++ (first AC) · Tags: brute force, dp, greedy

[PavelKunyavskiy's solution](#)

613.

18E

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614.

15C

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615.

13B

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616.

10C

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617.

8C

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618.

2B

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619.

2068C

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620.

1942D

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621.

1810E

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622.

1761D

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623.

1284D

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624.

1158C

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625.

1028D

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626.

859E

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627.

859D

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628.

799D

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629.

601B

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[PavelKunyavskiy's solution](#)

630.

590B

[Chip 'n Dale Rescue Rangers](#) · [Tutorial](#)

Quality: 2,030 global accepts · Rating: 2100 · first AC: 2015-10-25 · GNU C++11 (first AC) · Tags: binary search, geometry, math
[PavelKunyavskiy's solution](#)

631.

549H

[Degenerate Matrix](#) · [Tutorial](#)

Quality: 2,092 global accepts · Rating: 2100 · first AC: 2015-06-06 · GNU C++11 (first AC) · Tags: binary search, math
[PavelKunyavskiy's solution](#)

632.

475C

[Kamal-ol-molk's Painting](#) · [Tutorial](#)

Quality: 834 global accepts · Rating: 2100 · first AC: 2014-10-05 · GNU C++0x (first AC) · Tags: brute force, constructive algorithms, greedy
[PavelKunyavskiy's solution](#)

633.

372C

[Watching Fireworks is Fun](#) · [Tutorial](#)

Quality: 4,932 global accepts · Rating: 2100 · first AC: 2013-12-13 · GNU C++ (first AC) · Tags: data structures, dp, math
[PavelKunyavskiy's solution](#)

634.

356C

[Compartments](#) · [Tutorial](#)

Quality: 1,397 global accepts · Rating: 2100 · first AC: 2013-10-15 · GNU C++ (first AC) · Tags: combinatorics, constructive algorithms, greedy, implementation
[PavelKunyavskiy's solution](#)

635.

354C

[Vasya and Beautiful Arrays](#) · [Tutorial](#)

Quality: 3,332 global accepts · Rating: 2100 · first AC: 2013-10-13 · GNU C++ (first AC) · Tags: brute force, dp, number theory
[PavelKunyavskiy's solution](#)

636.

343D

[Water Tree](#) · [Tutorial](#)

Quality: 6,849 global accepts · Rating: 2100 · first AC: 2013-09-14 · GNU C++ (first AC) · Tags: data structures, dfs and similar, graphs, trees
[PavelKunyavskiy's solution](#)

637.

345B

[Triskaidekaphobia](#) · [Tutorial](#)

Quality: 129 global accepts · Rating: 2100 · first AC: 2013-09-13 · Ada (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

638.

333D

[Characteristics of Rectangles](#) · [Tutorial](#)

Quality: 2,239 global accepts · Rating: 2100 · first AC: 2013-07-27 · GNU C++ (first AC) · Tags: binary search, bitmasks, brute force, implementation, sortings

[PavelKunyavskiy's solution](#)

639.

319C

[Kalila and Dimna in the Logging Industry](#) · [Tutorial](#)

Quality: 6,592 global accepts · Rating: 2100 · first AC: 2013-06-23 · GNU C++ (first AC) · Tags: dp, geometry

[PavelKunyavskiy's solution](#)

640.

301B

[Yaroslav and Time](#) · [Tutorial](#)

Quality: 2,796 global accepts · Rating: 2100 · first AC: 2013-05-05 · GNU C++ (first AC) · Tags: binary search, graphs, shortest paths

[PavelKunyavskiy's solution](#)

641.

295C

[Greg and Friends](#) · [Tutorial](#)

Quality: 1,939 global accepts · Rating: 2100 · first AC: 2013-04-11 · GNU C++ (first AC) · Tags: combinatorics, dp, graphs, shortest paths

[PavelKunyavskiy's solution](#)

642.

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

[PavelKunyavskiy's solution](#)

643.

238C

[World Eater Brothers](#) · [Tutorial](#)

Quality: 1,366 global accepts · Rating: 2100 · first AC: 2012-11-04 · GNU C++ (first AC) · Tags: dfs and similar, dp, greedy, trees

[PavelKunyavskiy's solution](#)

644.

229D

[Towers](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

645.

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

[PavelKunyavskiy's solution](#)

646.

163C

[Conveyor](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

647.

145C

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

Quality: 2,174 global accepts · Rating: 2100 · first AC: 2012-01-22 · GNU C++ (first AC) · Tags: combinatorics, dp, math

[PavelKunyavskiy's solution](#)

648.

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

[PavelKunyavskiy's solution](#)

649.

48E

[Ivan the Fool VS Gorynych the Dragon](#) · [Tutorial](#)

Quality: 705 global accepts · Rating: 2100 · first AC: 2011-03-23 · GNU C++ (first AC) · Tags: dp, games, graphs

[PavelKunyavskiy's solution](#)

650.

1C

[Ancient Berland Circus](#) · [Tutorial](#)

Quality: 6,481 global accepts · Rating: 2100 · first AC: 2011-03-18 · GNU C++ (first AC) · Tags: geometry, math

[PavelKunyavskiy's solution](#)

651.

54D

[Writing a Song](#) · [Tutorial](#)

Quality: 709 global accepts · Rating: 2100 · first AC: 2011-01-11 · GNU C++ (first AC) · Tags: brute force, dp, strings

[PavelKunyavskiy's solution](#)

652.

50D

[Bombing](#) · [Tutorial](#)

Quality: 707 global accepts · Rating: 2100 · first AC: 2010-12-20 · GNU C++ (first AC) · Tags: binary search, dp, probabilities

[PavelKunyavskiy's solution](#)

653.

38F

[Smart Boy](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

654.

39C

[Moon Craters](#) · [Tutorial](#)

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

[PavelKunyavskiy's solution](#)

655.

1949F

[Dating](#) · [Tutorial](#)

Quality: 1,408 global accepts · Rating: 2200 · first AC: 2024-03-24 · Rust 2021 (first AC) · Tags: greedy, sortings, trees

[PavelKunyavskiy's solution](#)

656.

1704E

[Count Seconds](#) · [Tutorial](#)

Quality: 2,679 global accepts · Rating: 2200 · first AC: 2022-07-31 · Kotlin 1.6 (first AC) · Tags: brute force, constructive algorithms, dp, graphs, implementation, math

[PavelKunyavskiy's solution](#)

657.

1615D

[X\(or\)-mas Tree](#) · [Tutorial](#)

Quality: 2,134 global accepts · Rating: 2200 · first AC: 2021-12-24 · Kotlin 1.5 (first AC) · Tags: bitmasks, dfs and similar, dsu, graphs, trees

[PavelKunyavskiy's solution](#)

658.

1488E

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

Quality: 231 global accepts · Rating: 2200 · first AC: 2021-03-09 · Kotlin 1.4 (first AC) · Tags: *special, data structures, dp

[PavelKunyavskiy's solution](#)

659.

1149B

[Three Religions](#) · [Tutorial](#)

Quality: 2,045 global accepts · Rating: 2200 · first AC: 2019-04-29 · C++17 (GCC 7-32) (first AC) · Tags: dp, implementation, strings

[PavelKunyavskiy's solution](#)

660.

1097D

[Makoto and a Blackboard](#) · [Tutorial](#)

Quality: 3,172 global accepts · Rating: 2200 · first AC: 2019-01-04 · C++17 (GCC 7-32) (first AC) · Tags: dp, math, number theory, probabilities

[PavelKunyavskiy's solution](#)

661.

981E

[Addition on Segments](#) · [Tutorial](#)

Quality: 2,536 global accepts · Rating: 2200 · first AC: 2018-05-27 · GNU C++11 (first AC) · Tags: bitmasks, data structures, divide and conquer, dp

[PavelKunyavskiy's solution](#)

662.

908D

[New Year and Arbitrary Arrangement](#) · [Tutorial](#)

Quality: 2,607 global accepts · Rating: 2200 · first AC: 2017-12-29 · GNU C++11 (first AC) · Tags: dp, math, probabilities

[PavelKunyavskiy's solution](#)

663.

906B

[Seating of Students](#) · [Tutorial](#)

Quality: 1,323 global accepts · Rating: 2200 · first AC: 2017-12-23 · GNU C++11 (first AC) · Tags: brute force, constructive algorithms, math

[PavelKunyavskiy's solution](#)

664.

759C

[Nikita and stack](#) · [Tutorial](#)

Rating: 2200 · first AC: 2017-01-22 · GNU C++11 (first AC) · Tags: binary search, data structures

[PavelKunyavskiy's solution](#)

665.

679B

[Bear and Tower of Cubes](#) · [Tutorial](#)

Quality: 2,231 global accepts · Rating: 2200 · first AC: 2016-06-08 · GNU C++11 (first AC) · Tags: binary search, dp, greedy

[PavelKunyavskiy's solution](#)

666.

662B

[Graph Coloring](#) · [Tutorial](#)

Quality: 1,658 global accepts · Rating: 2200 · first AC: 2016-04-15 · GNU C++11 (first AC) · Tags: dfs and similar, graphs

[PavelKunyavskiy's solution](#)

667.

645E

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

Quality: 1,407 global accepts · Rating: 2200 · first AC: 2016-03-18 · GNU C++11 (first AC) · Tags: dp, greedy, strings

[PavelKunyavskiy's solution](#)

668.

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

[PavelKunyavskiy's solution](#)

669.

590C

[Three States](#) · [Tutorial](#)

Quality: 3,553 global accepts · Rating: 2200 · first AC: 2015-10-25 · GNU C++11 (first AC) · Tags: dfs and similar, graphs, shortest paths

[PavelKunyavskiy's solution](#)

670.

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

[PavelKunyavskiy's solution](#)

671.

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

[PavelKunyavskiy's solution](#)

672.

526D

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

Quality: 2,445 global accepts · Rating: 2200 · first AC: 2015-04-04 · GNU C++ (first AC) · Tags: hashing, string suffix structures, strings

[PavelKunyavskiy's solution](#)

673.

406D

[Hill Climbing](#) · [Tutorial](#)

Quality: 1,281 global accepts · Rating: 2200 · first AC: 2014-03-22 · GNU C++ (first AC) · Tags: dfs and similar, geometry, trees

[PavelKunyavskiy's solution](#)

674.

364B

[Free Market](#) · [Tutorial](#)

Quality: 1,252 global accepts · Rating: 2200 · first AC: 2013-11-19 · GNU C++ (first AC) · Tags: dp, greedy

[PavelKunyavskiy's solution](#)

675.

354E

[Lucky Number Representation](#) · [Tutorial](#)

Quality: 911 global accepts · Rating: 2200 · first AC: 2013-10-13 · GNU C++ (first AC) · Tags: constructive algorithms, dfs and similar, dp

[PavelKunyavskiy's solution](#)

676.

351E

[Jeff and Permutation](#) · [Tutorial](#)

Quality: 1,793 global accepts · Rating: 2200 · first AC: 2013-10-04 · GNU C++ (first AC) · Tags: greedy

[PavelKunyavskiy's solution](#)

677.

346C

[Number Transformation II](#) · [Tutorial](#)

Quality: 1,506 global accepts · Rating: 2200 · first AC: 2013-09-20 · GNU C++ (first AC) · Tags: greedy, math

[PavelKunyavskiy's solution](#)

678.

316G2

[Good Substrings](#) · [Tutorial](#)

Quality: 518 global accepts · Rating: 2200 · first AC: 2013-06-12 · GNU C++ (first AC) · Tags: string suffix structures

[PavelKunyavskiy's solution](#)

679.

316C1

[Tidying Up](#) · [Tutorial](#)

Quality: 592 global accepts · Rating: 2200 · first AC: 2013-06-12 · GNU C++ (first AC) · Tags: flows

[PavelKunyavskiy's solution](#)

680.

301D

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

Quality: 3,022 global accepts · Rating: 2200 · first AC: 2013-05-05 · GNU C++ (first AC) · Tags: data structures

[PavelKunyavskiy's solution](#)

681.

274D

[Lovely Matrix](#) · [Tutorial](#)

Quality: 1,155 global accepts · Rating: 2200 · first AC: 2013-02-20 · GNU C++ (first AC) · Tags: dfs and similar, graphs, greedy, sortings

[PavelKunyavskiy's solution](#)

682.

273C

[Dima and Horses](#) · [Tutorial](#)

Rating: 2200 · first AC: 2013-02-13 · GNU C++ (first AC) · Tags: graphs, greedy

[PavelKunyavskiy's solution](#)

683.

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

[PavelKunyavskiy's solution](#)

684.

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

[PavelKunyavskiy's solution](#)

685.

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

[PavelKunyavskiy's solution](#)

686.

153C

[Caesar Cipher](#) · [Tutorial](#)

Quality: 415 global accepts · Rating: 2200 · first AC: 2012-02-22 · Cobol (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

687.

138C

[Mushroom Gnomes - 2](#) · [Tutorial](#)

Quality: 963 global accepts · Rating: 2200 · first AC: 2011-12-24 · GNU C++ (first AC) · Tags: binary search, data structures, probabilities, sortings

[PavelKunyavskiy's solution](#)

688.

115C

[Plumber](#) · [Tutorial](#)

Quality: 677 global accepts · Rating: 2200 · first AC: 2011-09-15 · GNU C++ (first AC) · Tags: math

[PavelKunyavskiy's solution](#)

689.

113C

[Double Happiness](#) · [Tutorial](#)

Quality: 1,451 global accepts · Rating: 2200 · first AC: 2011-09-08 · GNU C++ (first AC) · Tags: brute force, math, number theory

[PavelKunyavskiy's solution](#)

690.

85C

[Petya and Tree](#) · [Tutorial](#)

Quality: 618 global accepts · Rating: 2200 · first AC: 2011-05-20 · GNU C++ (first AC) · Tags: binary search, dfs and similar, probabilities, sortings, trees

[PavelKunyavskiy's solution](#)

691.

71E

[Nuclear Fusion](#) · [Tutorial](#)

Quality: 943 global accepts · Rating: 2200 · first AC: 2011-03-29 · GNU C++ (first AC) · Tags: bitmasks, dp

[PavelKunyavskiy's solution](#)

692.

71D

[Solitaire](#) · [Tutorial](#)

Quality: 769 global accepts · Rating: 2200 · first AC: 2011-03-29 · GNU C++ (first AC) · Tags: brute force, implementation

[PavelKunyavskiy's solution](#)

693.

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

[PavelKunyavskiy's solution](#)

694.

68C

[Synchrophasotron](#) · [Tutorial](#)

Quality: 353 global accepts · Rating: 2200 · first AC: 2011-03-18 · GNU C++ (first AC) · Tags: brute force

[PavelKunyavskiy's solution](#)

695.

64G

[Path Canonization](#) · [Tutorial](#)

Quality: 129 global accepts · Rating: 2200 · first AC: 2011-02-21 · Tcl (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

696.

51D

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

Quality: 563 global accepts · Rating: 2200 · first AC: 2010-12-28 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

697.

45B

[School](#) · [Tutorial](#)

Quality: 320 global accepts · Rating: 2200 · first AC: 2010-11-13 · GNU C++ (first AC) · Tags: dp, dsu

[PavelKunyavskiy's solution](#)

698.

45G

[Prime Problem](#) · [Tutorial](#)

Quality: 1,221 global accepts · Rating: 2200 · first AC: 2010-11-13 · GNU C++ (first AC) · Tags: number theory

[PavelKunyavskiy's solution](#)

699.

28C

[Bath Queue](#) · [Tutorial](#)

Quality: 1,288 global accepts · Rating: 2200 · first AC: 2010-09-17 · GNU C++ (first AC) · Tags: combinatorics, dp, probabilities

[PavelKunyavskiy's solution](#)

700.

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

[PavelKunyavskiy's solution](#)

701.

13C

[Sequence](#) · [Tutorial](#)

Quality: 5,469 global accepts · Rating: 2200 · first AC: 2010-05-06 · GNU C++ (first AC) · Tags: dp, sortings

[PavelKunyavskiy's solution](#)

702.

7D

[Palindrome Degree](#) · [Tutorial](#)

Quality: 4,478 global accepts · Rating: 2200 · first AC: 2010-04-01 · GNU C++ (first AC) · Tags: hashing, strings

[PavelKunyavskiy's solution](#)

703.

1942E

[Farm Game](#) · [Tutorial](#)

Quality: 1,957 global accepts · Rating: 2300 · first AC: 2024-03-30 · Kotlin 1.9 (first AC) · Tags: combinatorics, games

[PavelKunyavskiy's solution](#)

704.

1949G

[Scooter](#) · [Tutorial](#)

Quality: 1,041 global accepts · Rating: 2300 · first AC: 2024-03-24 · C++17 (GCC 7-32) (first AC) · Tags: graphs, greedy

[PavelKunyavskiy's solution](#)

705.

1782E

[Rectangle Shrinking](#) · [Tutorial](#)

Rating: 2300 · first AC: 2023-01-15 · Kotlin 1.7 (first AC) · Tags: brute force, data structures, greedy, implementation, sortings

[PavelKunyavskiy's solution](#)

706.

1738E

[Balance Addicts](#) · [Tutorial](#)

Quality: 1,798 global accepts · Rating: 2300 · first AC: 2022-09-30 · Kotlin 1.6 (first AC) · Tags: combinatorics, dp, math, two pointers

[PavelKunyavskiy's solution](#)

707.

1488F

[Dogecoin](#) · [Tutorial](#)

Quality: 190 global accepts · Rating: 2300 · first AC: 2021-03-09 · Kotlin 1.4 (first AC) · Tags: *special, binary search, data structures

[PavelKunyavskiy's solution](#)

708.

1394B

[Boboniu Walks on Graph](#) · [Tutorial](#)

Quality: 2,146 global accepts · Rating: 2300 · first AC: 2020-08-12 · C++17 (GCC 7-32) (first AC) · Tags: brute force, dfs and similar, graphs, hashing

[PavelKunyavskiy's solution](#)

709.

1276C

[Beautiful Rectangle](#) · [Tutorial](#)

Quality: 1,788 global accepts · Rating: 2300 · first AC: 2019-12-14 · C++17 (GCC 7-32) (first AC) · Tags: brute force, combinatorics, constructive algorithms, data structures, greedy, math

[PavelKunyavskiy's solution](#)

710.

1198D

[Rectangle Painting 1](#) · [Tutorial](#)

Quality: 3,744 global accepts · Rating: 2300 · first AC: 2019-07-30 · C++17 (GCC 7-32) (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

711.

708C

[Centroids](#) · [Tutorial](#)

Quality: 4,360 global accepts · Rating: 2300 · first AC: 2016-08-24 · GNU C++11 (first AC) · Tags: data structures, dfs and similar, dp, graphs, greedy, trees

[PavelKunyavskiy's solution](#)

712.

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

[PavelKunyavskiy's solution](#)

713.

601C

[Kleofáš and the n-thlon](#) · [Tutorial](#)

Quality: 1,420 global accepts · Rating: 2300 · first AC: 2015-11-24 · GNU C++11 (first AC) · Tags: dp, math, probabilities

[PavelKunyavskiy's solution](#)

714.

590D

[Top Secret Task](#) · [Tutorial](#)

Quality: 1,333 global accepts · Rating: 2300 · first AC: 2015-10-25 · GNU C++11 (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

715.

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

[PavelKunyavskiy's solution](#)

716.

487C

[Prefix Product Sequence](#) · [Tutorial](#)

Quality: 3,080 global accepts · Rating: 2300 · first AC: 2014-11-21 · GNU C++0x (first AC) · Tags: constructive algorithms, math, number theory

[PavelKunyavskiy's solution](#)

717.

470H

[Array Sorting](#) · [Tutorial](#)

Quality: 194 global accepts · Rating: 2300 · first AC: 2014-09-13 · FALSE (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

718.

470G

[Hamming Distance](#) · [Tutorial](#)

Quality: 131 global accepts · Rating: 2300 · first AC: 2014-09-13 · FALSE (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

719.

470F

[Pairwise Sums](#) · [Tutorial](#)

Quality: 114 global accepts · Rating: 2300 · first AC: 2014-09-13 · FALSE (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

720.

438D

[The Child and Sequence](#) · [Tutorial](#)

Quality: 11,597 global accepts · Rating: 2300 · first AC: 2014-06-01 · GNU C++ (first AC) · Tags: data structures, math

[PavelKunyavskiy's solution](#)

721.

406C

[Graph Cutting](#) · [Tutorial](#)

Rating: 2300 · first AC: 2014-03-22 · GNU C++ (first AC) · Tags: constructive algorithms, dfs and similar, graphs

[PavelKunyavskiy's solution](#)

722.

383D

[Antimatter](#) · [Tutorial](#)

Quality: 3,342 global accepts · Rating: 2300 · first AC: 2014-01-20 · GNU C++ (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

723.

316D2

[PE Lesson](#) · [Tutorial](#)

Quality: 544 global accepts · Rating: 2300 · first AC: 2013-06-12 · GNU C++ (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

724.

316D1

[PE Lesson](#) · [Tutorial](#)

Quality: 607 global accepts · Rating: 2300 · first AC: 2013-06-12 · GNU C++ (first AC) · Tags: brute force, dp

[PavelKunyavskiy's solution](#)

725.

316E2

[Summer Homework](#) · [Tutorial](#)

Quality: 432 global accepts · Rating: 2300 · first AC: 2013-06-12 · GNU C++ (first AC) · Tags: data structures, math

[PavelKunyavskiy's solution](#)

726.

316C2

[Tidying Up](#) · [Tutorial](#)

Quality: 668 global accepts · Rating: 2300 · first AC: 2013-06-12 · GNU C++ (first AC) · Tags: flows, graph matchings

[PavelKunyavskiy's solution](#)

727.

277B

[Set of Points](#) · [Tutorial](#)

Quality: 847 global accepts · Rating: 2300 · first AC: 2013-02-28 · GNU C++ (first AC) · Tags: constructive algorithms, geometry

[PavelKunyavskiy's solution](#)

728.

241F

[Race](#) · [Tutorial](#)

Quality: 289 global accepts · Rating: 2300 · first AC: 2012-11-01 · GNU C++ (first AC) · Tags: brute force, implementation

[PavelKunyavskiy's solution](#)

729.

149E

[Martian Strings](#) · [Tutorial](#)

Quality: 2,516 global accepts · Rating: 2300 · first AC: 2012-02-10 · Java 6 (first AC) · Tags: string suffix structures, strings

[PavelKunyavskiy's solution](#)

730.

142C

[Help Caretaker](#) · [Tutorial](#)

Quality: 997 global accepts · Rating: 2300 · first AC: 2012-01-12 · GNU C++ (first AC) · Tags: brute force, dp

[PavelKunyavskiy's solution](#)

731.

126D

[Fibonacci Sums](#) · [Tutorial](#)

Quality: 946 global accepts · Rating: 2300 · first AC: 2011-11-09 · GNU C++ (first AC) · Tags: dp, math

[PavelKunyavskiy's solution](#)

732.

111D

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

Quality: 901 global accepts · Rating: 2300 · first AC: 2011-09-03 · GNU C++ (first AC) · Tags: combinatorics, dp

[PavelKunyavskiy's solution](#)

733.

97B

[Superset](#) · [Tutorial](#)

Quality: 1,000 global accepts · Rating: 2300 · first AC: 2011-07-15 · GNU C++ (first AC) · Tags: constructive algorithms, divide and conquer

[PavelKunyavskiy's solution](#)

734.

89C

[Chip Play](#) · [Tutorial](#)

Quality: 688 global accepts · Rating: 2300 · first AC: 2011-06-26 · GNU C++ (first AC) · Tags: brute force, data structures, implementation

[PavelKunyavskiy's solution](#)

735.

91C

[Ski Base](#) · [Tutorial](#)

Quality: 1,011 global accepts · Rating: 2300 · first AC: 2011-06-20 · GNU C++ (first AC) · Tags: combinatorics, dsu, graphs

[PavelKunyavskiy's solution](#)

736.

89B

[Widget Library](#) · [Tutorial](#)

Quality: 610 global accepts · Rating: 2300 · first AC: 2011-06-16 · GNU C++ (first AC) · Tags: dp, expression parsing, graphs, implementation

[PavelKunyavskiy's solution](#)

737.

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

[PavelKunyavskiy's solution](#)

738.

77D

[Domino Carpet](#) · [Tutorial](#)

Quality: 363 global accepts · Rating: 2300 · first AC: 2011-04-19 · GNU C++ (first AC) · Tags: dp, implementation

[PavelKunyavskiy's solution](#)

739.

72D

[Perse-script](#) · [Tutorial](#)

Quality: 83 global accepts · Rating: 2300 · first AC: 2011-03-20 · lo (first AC) · Tags: *special, expression parsing

[PavelKunyavskiy's solution](#)

740.

62C

[Inquisition](#) · [Tutorial](#)

Quality: 337 global accepts · Rating: 2300 · first AC: 2011-02-25 · GNU C++ (first AC) · Tags: geometry, implementation, sortings

[PavelKunyavskiy's solution](#)

741.

64H

[Table Bowling](#) · [Tutorial](#)

Quality: 122 global accepts · Rating: 2300 · first AC: 2011-02-21 · Tcl (first AC) · Tags: *special, sortings

[PavelKunyavskiy's solution](#)

742.

50E

[Square Equation Roots](#) · [Tutorial](#)

Quality: 432 global accepts · Rating: 2300 · first AC: 2010-12-20 · GNU C++ (first AC) · Tags: math

[PavelKunyavskiy's solution](#)

743.

49E

[Common ancestor](#) · [Tutorial](#)

Quality: 798 global accepts · Rating: 2300 · first AC: 2010-12-17 · GNU C++ (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

744.

46F

[Hercule Poirot Problem](#) · [Tutorial](#)

Quality: 358 global accepts · Rating: 2300 · first AC: 2010-12-05 · GNU C++ (first AC) · Tags: dsu, graphs

[PavelKunyavskiy's solution](#)

745.

44I

[Toys](#) · [Tutorial](#)

Quality: 231 global accepts · Rating: 2300 · first AC: 2010-11-06 · GNU C++ (first AC) · Tags: brute force, combinatorics

[PavelKunyavskiy's solution](#)

746.

40C

[Berland Square](#) · [Tutorial](#)

Quality: 326 global accepts · Rating: 2300 · first AC: 2010-11-05 · GNU C++ (first AC) · Tags: implementation, math

[PavelKunyavskiy's solution](#)

747.

38G

[Queue](#) · [Tutorial](#)

Quality: 808 global accepts · Rating: 2300 · first AC: 2010-10-30 · last AC: 2010-11-02 · GNU C++ (first AC) · Tags: data structures

[PavelKunyavskiy's solution](#)

748.

37D

[Lesson Timetable](#) · [Tutorial](#)

Quality: 555 global accepts · Rating: 2300 · first AC: 2010-10-25 · GNU C++ (first AC) · Tags: combinatorics, dp, math

[PavelKunyavskiy's solution](#)

749.

1804E

[Routing](#) · [Tutorial](#)

Quality: 1,706 global accepts · Rating: 2400 · first AC: 2023-03-12 · C++20 (GCC 11-64) (first AC) · Tags: bitmasks, brute force, dfs and similar, dp, graphs

[PavelKunyavskiy's solution](#)

750.

1761E

[Make It Connected](#) · [Tutorial](#)

Quality: 2,148 global accepts · Rating: 2400 · first AC: 2022-11-20 · Kotlin 1.7 (first AC) · Tags: binary search, brute force, constructive algorithms, dsu, graphs, greedy, matrices, trees, two pointers

[PavelKunyavskiy's solution](#)

751.

1738F

[Connectivity Addicts](#) · [Tutorial](#)

Quality: 1,381 global accepts · Rating: 2400 · first AC: 2022-09-30 · Kotlin 1.6 (first AC) · Tags: constructive algorithms, dsu, graphs, greedy, interactive, shortest paths, trees

[PavelKunyavskiy's solution](#)

752.

1326E

[Bombs](#) · [Tutorial](#)

Quality: 2,420 global accepts · Rating: 2400 · first AC: 2020-03-19 · last AC: 2020-03-20 · C++17 (GCC 7-32) (first AC) · Tags: data structures, two pointers

[PavelKunyavskiy's solution](#)

753.

1290C

[Prefix Enlightenment](#) · [Tutorial](#)

Quality: 2,013 global accepts · Rating: 2400 · first AC: 2020-02-02 · C++17 (GCC 7-32) (first AC) · Tags: dfs and similar, dsu, graphs

[PavelKunyavskiy's solution](#)

754.

1237E

[Balanced Binary Search Trees](#) · [Tutorial](#)

Quality: 1,520 global accepts · Rating: 2400 · first AC: 2019-10-16 · C++17 (GCC 7-32) (first AC) · Tags: dp, math

[PavelKunyavskiy's solution](#)

755.

1028E

[Restore Array](#) · [Tutorial](#)

Quality: 1,202 global accepts · Rating: 2400 · first AC: 2018-08-27 · C++14 (GCC 6-32) (first AC) · Tags: constructive algorithms

[PavelKunyavskiy's solution](#)

756.

908F

[New Year and Rainbow Roads](#) · [Tutorial](#)

Quality: 1,608 global accepts · Rating: 2400 · first AC: 2017-12-29 · GNU C++11 (first AC) · Tags: graphs, greedy, implementation

[PavelKunyavskiy's solution](#)

757.

906C

[Party](#) · [Tutorial](#)

Quality: 1,509 global accepts · Rating: 2400 · first AC: 2017-12-23 · GNU C++11 (first AC) · Tags: bitmasks, brute force, dp, graphs

[PavelKunyavskiy's solution](#)

758.

866D

[Buy Low Sell High](#) · [Tutorial](#)

Rating: 2400 · first AC: 2017-09-30 · GNU C++11 (first AC) · Tags: data structures, greedy, two pointers

[PavelKunyavskiy's solution](#)

759.

759D

[Bacterial Melee](#) · [Tutorial](#)

Rating: 2400 · first AC: 2017-01-22 · GNU C++11 (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

760.

744C

[Hongcow Buys a Deck of Cards](#) · [Tutorial](#)

Quality: 1,304 global accepts · Rating: 2400 · first AC: 2016-12-17 · GNU C++11 (first AC) · Tags: bitmasks, brute force, dp

[PavelKunyavskiy's solution](#)

761.

679C

[Bear and Square Grid](#) · [Tutorial](#)

Quality: 1,265 global accepts · Rating: 2400 · first AC: 2016-06-08 · GNU C++11 (first AC) · Tags: dfs and similar, dsu, implementation

[PavelKunyavskiy's solution](#)

762.

662A

[Gambling Nim](#) · [Tutorial](#)

Quality: 590 global accepts · Rating: 2400 · first AC: 2016-04-15 · GNU C++11 (first AC) · Tags: bitmasks, math, matrices, probabilities

[PavelKunyavskiy's solution](#)

763.

633E

[Startup Funding](#) · [Tutorial](#)

Quality: 621 global accepts · Rating: 2400 · first AC: 2016-02-26 · GNU C++11 (first AC) · Tags: binary search, constructive algorithms, data structures, probabilities, two pointers

[PavelKunyavskiy's solution](#)

764.

626F

[Group Projects](#) · [Tutorial](#)

Quality: 3,592 global accepts · Rating: 2400 · first AC: 2016-02-13 · GNU C++11 (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

765.

601D

[Acyclic Organic Compounds](#) · [Tutorial](#)

Quality: 1,246 global accepts · Rating: 2400 · first AC: 2015-11-24 · GNU C++11 (first AC) · Tags: data structures, dfs and similar, dsu, hashing, strings, trees

[PavelKunyavskiy's solution](#)

766.

582C

[Superior Periodic Subarrays](#) · [Tutorial](#)

Quality: 796 global accepts · Rating: 2400 · first AC: 2015-10-03 · GNU C++11 (first AC) · Tags: number theory

[PavelKunyavskiy's solution](#)

767.

513D1

[Constrained Tree](#) · [Tutorial](#)

Quality: 648 global accepts · Rating: 2400 · first AC: 2015-02-07 · last AC: 2015-02-07 · GNU C++0x (first AC) · Tags: dfs and similar

[PavelKunyavskiy's solution](#)

768.

513G2

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

Quality: 725 global accepts · Rating: 2400 · first AC: 2015-02-07 · GNU C++0x (first AC) · Tags: dp, probabilities

[PavelKunyavskiy's solution](#)

769.

375D

[Tree and Queries](#) · [Tutorial](#)

Quality: 8,916 global accepts · Rating: 2400 · first AC: 2013-12-24 · GNU C++ (first AC) · Tags: data structures, dfs and similar, trees

[PavelKunyavskiy's solution](#)

770.

367D

[Sereja and Sets](#) · [Tutorial](#)

Quality: 688 global accepts · Rating: 2400 · first AC: 2013-11-26 · GNU C++ (first AC) · Tags: bitmasks, dfs and similar

[PavelKunyavskiy's solution](#)

771.

354B

[Game with Strings](#) · [Tutorial](#)

Quality: 503 global accepts · Rating: 2400 · first AC: 2013-10-13 · GNU C++ (first AC) · Tags: bitmasks, dp, games

[PavelKunyavskiy's solution](#)

772.

329C

[Graph Reconstruction](#) · [Tutorial](#)

Quality: 1,010 global accepts · Rating: 2400 · first AC: 2013-07-20 · GNU C++ (first AC) · Tags: constructive algorithms

[PavelKunyavskiy's solution](#)

773.

331D1

[Escaping on Beaveractor](#) · [Tutorial](#)

Quality: 223 global accepts · Rating: 2400 · first AC: 2013-07-17 · GNU C++ (first AC) · Tags: dfs and similar, implementation

[PavelKunyavskiy's solution](#)

774.

331C2

[The Great Julya Calendar](#) · [Tutorial](#)

Quality: 440 global accepts · Rating: 2400 · first AC: 2013-07-17 · GNU C++ (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

775.

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

[PavelKunyavskiy's solution](#)

776.

277E

[Binary Tree on Plane](#) · [Tutorial](#)

Quality: 1,479 global accepts · Rating: 2400 · first AC: 2013-02-28 · GNU C++ (first AC) · Tags: flows, trees

[PavelKunyavskiy's solution](#)

777.

277C

[Game](#) · [Tutorial](#)

Quality: 491 global accepts · Rating: 2400 · first AC: 2013-02-28 · GNU C++ (first AC) · Tags: games, implementation

[PavelKunyavskiy's solution](#)

778.

198C

[Delivering Carcinogen](#) · [Tutorial](#)

Quality: 428 global accepts · Rating: 2400 · first AC: 2012-06-22 · GNU C++ (first AC) · Tags: binary search, geometry

[PavelKunyavskiy's solution](#)

779.

161C

[Abracadabra](#) · [Tutorial](#)

Quality: 693 global accepts · Rating: 2400 · first AC: 2012-03-11 · GNU C++ (first AC) · Tags: divide and conquer

[PavelKunyavskiy's solution](#)

780.

145E

[Lucky Queries](#) · [Tutorial](#)

Quality: 3,960 global accepts · Rating: 2400 · first AC: 2012-01-22 · GNU C++ (first AC) · Tags: data structures

[PavelKunyavskiy's solution](#)

781.

121E

[Lucky Array](#) · [Tutorial](#)

Quality: 2,059 global accepts · Rating: 2400 · first AC: 2011-10-27 · GNU C++ (first AC) · Tags: data structures

[PavelKunyavskiy's solution](#)

782.

115E

[Linear Kingdom Races](#) · [Tutorial](#)

Quality: 2,212 global accepts · Rating: 2400 · first AC: 2011-09-15 · GNU C++ (first AC) · Tags: data structures, dp

[PavelKunyavskiy's solution](#)

783.

107D

[Crime Management](#) · [Tutorial](#)

Quality: 487 global accepts · Rating: 2400 · first AC: 2011-08-23 · GNU C++ (first AC) · Tags: dp, graphs, matrices

[PavelKunyavskiy's solution](#)

784.

51E

[Pentagon](#) · [Tutorial](#)

Quality: 454 global accepts · Rating: 2400 · first AC: 2010-12-28 · GNU C++ (first AC) · Tags: combinatorics, graphs, matrices

[PavelKunyavskiy's solution](#)

785.

38H

[The Great Marathon](#) · [Tutorial](#)

Quality: 445 global accepts · Rating: 2400 · first AC: 2010-10-30 · GNU C++ (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

786.

39G

[Inverse Function](#) · [Tutorial](#)

Quality: 160 global accepts · Rating: 2400 · first AC: 2010-10-24 · GNU C++ (first AC) · Tags: implementation

[PavelKunyavskiy's solution](#)

787.

32E

[Hide-and-Seek](#) · [Tutorial](#)

Quality: 423 global accepts · Rating: 2400 · first AC: 2010-10-02 · GNU C++ (first AC) · Tags: geometry, implementation

[PavelKunyavskiy's solution](#)

788.

17D

[Notepad](#) · [Tutorial](#)

Quality: 1,328 global accepts · Rating: 2400 · first AC: 2010-06-10 · GNU C++ (first AC) · Tags: number theory

[PavelKunyavskiy's solution](#)

789.

12D

[Ball](#) · [Tutorial](#)

Quality: 2,885 global accepts · Rating: 2400 · first AC: 2010-04-29 · GNU C++ (first AC) · Tags: data structures, sortings

[PavelKunyavskiy's solution](#)

790.

1746E1

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

Quality: 1,693 global accepts · Rating: 2500 · first AC: 2022-10-15 · Kotlin 1.6 (first AC) · Tags: binary search, constructive algorithms, interactive, ternary search

[PavelKunyavskiy's solution](#)

791.

1488G

[Painting Numbers](#) · [Tutorial](#)

Quality: 135 global accepts · Rating: 2500 · first AC: 2021-03-09 · Kotlin 1.4 (first AC) · Tags: *special, data structures, greedy, number theory

[PavelKunyavskiy's solution](#)

792.

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

[PavelKunyavskiy's solution](#)

793.

1375E

[Inversion SwapSort](#) · [Tutorial](#)

Quality: 3,371 global accepts · Rating: 2500 · first AC: 2020-07-04 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, greedy, sortings

[PavelKunyavskiy's solution](#)

794.

1284E

[New Year and Castle Construction](#) · [Tutorial](#)

Quality: 1,379 global accepts · Rating: 2500 · first AC: 2020-01-04 · C++17 (GCC 7-32) (first AC) · Tags: combinatorics, geometry, math, sortings

[PavelKunyavskiy's solution](#)

795.

1198E

[Rectangle Painting 2](#) · [Tutorial](#)

Quality: 1,298 global accepts · Rating: 2500 · first AC: 2019-07-30 · C++17 (GCC 7-32) (first AC) · Tags: flows, graph matchings, graphs

[PavelKunyavskiy's solution](#)

796.

1097F

[Alex and a TV Show](#) · [Tutorial](#)

Quality: 1,472 global accepts · Rating: 2500 · first AC: 2019-01-04 · C++17 (GCC 7-32) (first AC) · Tags: bitmasks, combinatorics, number theory

[PavelKunyavskiy's solution](#)

797.

986C

[AND Graph](#) · [Tutorial](#)

Quality: 2,716 global accepts · Rating: 2500 · first AC: 2018-05-29 · GNU C++11 (first AC) · Tags: bitmasks, dfs and similar, dsu, graphs

[PavelKunyavskiy's solution](#)

798.

981F

[Round Marriage](#) · [Tutorial](#)

Quality: 905 global accepts · Rating: 2500 · first AC: 2018-05-27 · GNU C++11 (first AC) · Tags: binary search, graph matchings, greedy

[PavelKunyavskiy's solution](#)

799.

981G

[Magic multisets](#) · [Tutorial](#)

Quality: 763 global accepts · Rating: 2500 · first AC: 2018-05-27 · GNU C++11 (first AC) · Tags: data structures

[PavelKunyavskiy's solution](#)

800.

908E

[New Year and Entity Enumeration](#) · [Tutorial](#)

Quality: 837 global accepts · Rating: 2500 · first AC: 2017-12-29 · GNU C++11 (first AC) · Tags: bitmasks, combinatorics, dp, math

[PavelKunyavskiy's solution](#)

801.

799E

[Aquarium decoration](#) · [Tutorial](#)

Quality: 1,053 global accepts · Rating: 2500 · first AC: 2017-05-11 · GNU C++11 (first AC) · Tags: data structures, greedy, two pointers

[PavelKunyavskiy's solution](#)

802.

645F

[Cowslip Collections](#) · [Tutorial](#)

Quality: 970 global accepts · Rating: 2500 · first AC: 2016-03-18 · GNU C++11 (first AC) · Tags: combinatorics, math, number theory

[PavelKunyavskiy's solution](#)

803.

607C

[Marbles](#) · [Tutorial](#)

Quality: 845 global accepts · Rating: 2500 · first AC: 2015-12-23 · GNU C++11 (first AC) · Tags: hashing, strings

[PavelKunyavskiy's solution](#)

804.

571C

[CNF 2](#) · [Tutorial](#)

Quality: 718 global accepts · Rating: 2500 · first AC: 2015-08-22 · GNU C++11 (first AC) · Tags: constructive algorithms, dfs and similar, graphs, greedy

[PavelKunyavskiy's solution](#)

805.

528D

[Fuzzy Search](#) · [Tutorial](#)

Quality: 2,861 global accepts · Rating: 2500 · first AC: 2015-03-17 · GNU C++0x (first AC) · Tags: bitmasks, brute force, fft

[PavelKunyavskiy's solution](#)

806.

468C

[Hack it!](#) · [Tutorial](#)

Quality: 2,739 global accepts · Rating: 2500 · first AC: 2014-09-20 · Python 2 (first AC) · Tags: binary search, constructive algorithms, math

[PavelKunyavskiy's solution](#)

807.

407C

[Curious Array](#) · [Tutorial](#)

Quality: 1,193 global accepts · Rating: 2500 · first AC: 2014-03-30 · GNU C++ (first AC) · Tags: brute force, combinatorics, implementation, math

[PavelKunyavskiy's solution](#)

808.

380D

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

Quality: 522 global accepts · Rating: 2500 · first AC: 2014-01-12 · GNU C++ (first AC) · Tags: combinatorics, math

[PavelKunyavskiy's solution](#)

809.

360C

[Levko and Strings](#) · [Tutorial](#)

Quality: 1,226 global accepts · Rating: 2500 · first AC: 2013-11-10 · GNU C++ (first AC) · Tags: combinatorics, dp

[PavelKunyavskiy's solution](#)

810.

341D

[lahub and Xors](#) · [Tutorial](#)

Quality: 1,383 global accepts · Rating: 2500 · first AC: 2013-08-30 · GNU C++ (first AC) · Tags: data structures

[PavelKunyavskiy's solution](#)

811.

333E

[Summer Earnings](#) · [Tutorial](#)

Quality: 1,249 global accepts · Rating: 2500 · first AC: 2013-07-27 · GNU C++ (first AC) · Tags: binary search, bitmasks, brute force, geometry, sortings

[PavelKunyavskiy's solution](#)

812.

331C3

[The Great Julia Calendar](#) · [Tutorial](#)

Quality: 624 global accepts · Rating: 2500 · first AC: 2013-07-17 · GNU C++ (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

813.

301C

[Yaroslav and Algorithm](#) · [Tutorial](#)

Quality: 488 global accepts · Rating: 2500 · first AC: 2013-05-05 · GNU C++ (first AC) · Tags: constructive algorithms

[PavelKunyavskiy's solution](#)

814.

297D

[Color the Carpet](#) · [Tutorial](#)

Quality: 628 global accepts · Rating: 2500 · first AC: 2013-04-19 · GNU C++ (first AC) · Tags: constructive algorithms

[PavelKunyavskiy's solution](#)

815.

295E

[Yaroslav and Points](#) · [Tutorial](#)

Quality: 818 global accepts · Rating: 2500 · first AC: 2013-04-11 · GNU C++ (first AC) · Tags: data structures

[PavelKunyavskiy's solution](#)

816.

264D

[Colorful Stones](#) · [Tutorial](#)

Quality: 451 global accepts · Rating: 2500 · first AC: 2013-01-20 · GNU C++ (first AC) · Tags: dp, two pointers

[PavelKunyavskiy's solution](#)

817.

173D

[Deputies](#) · [Tutorial](#)

Quality: 289 global accepts · Rating: 2500 · first AC: 2012-04-06 · GNU C++ (first AC) · Tags: constructive algorithms, graphs, greedy, implementation

[PavelKunyavskiy's solution](#)

818.

156D

[Clues](#) · [Tutorial](#)

Quality: 2,035 global accepts · Rating: 2500 · first AC: 2012-02-29 · GNU C++ (first AC) · Tags: combinatorics, graphs

[PavelKunyavskiy's solution](#)

819.

147B

[Smile House](#) · [Tutorial](#)

Quality: 921 global accepts · Rating: 2500 · first AC: 2012-01-03 · GNU C++ (first AC) · Tags: binary search, graphs, matrices

[PavelKunyavskiy's solution](#)

820.

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

[PavelKunyavskiy's solution](#)

821.

117D

[Not Quick Transformation](#) · [Tutorial](#)

Quality: 369 global accepts · Rating: 2500 · first AC: 2011-09-23 · GNU C++ (first AC) · Tags: divide and conquer, math

[PavelKunyavskiy's solution](#)

822.

93C

[Azembler](#) · [Tutorial](#)

Quality: 450 global accepts · Rating: 2500 · first AC: 2011-06-30 · GNU C++ (first AC) · Tags: brute force, implementation

[PavelKunyavskiy's solution](#)

823.

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

[PavelKunyavskiy's solution](#)

824.

68D

[Half-decay tree](#) · [Tutorial](#)

Quality: 531 global accepts · Rating: 2500 · first AC: 2011-03-20 · GNU C++ (first AC) · Tags: data structures, divide and conquer, dp, math, probabilities

[PavelKunyavskiy's solution](#)

825.

44G

[Shooting Gallery](#) · [Tutorial](#)

Quality: 501 global accepts · Rating: 2500 · first AC: 2010-11-06 · GNU C++ (first AC) · Tags: data structures, implementation

[PavelKunyavskiy's solution](#)

826.

39I

[Tram](#) · [Tutorial](#)

Quality: 199 global accepts · Rating: 2500 · first AC: 2010-11-02 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

827.

15D

[Map](#) · [Tutorial](#)

Quality: 914 global accepts · Rating: 2500 · first AC: 2010-05-29 · MS C++ (first AC) · Tags: data structures, implementation, sortings

[PavelKunyavskiy's solution](#)

828.

1949D

[Funny or Scary?](#) · [Tutorial](#)

Quality: 554 global accepts · Rating: 2600 · first AC: 2024-03-24 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms

[PavelKunyavskiy's solution](#)

829.

1949J

[Amanda the Amoeba](#) · [Tutorial](#)

Quality: 536 global accepts · Rating: 2600 · first AC: 2024-03-24 · C++17 (GCC 7-32) (first AC) · Tags: graphs, implementation, trees, two pointers

[PavelKunyavskiy's solution](#)

830.

1704F

[Colouring Game](#) · [Tutorial](#)

Quality: 1,304 global accepts · Rating: 2600 · first AC: 2022-07-31 · Kotlin 1.6 (first AC) · Tags: constructive algorithms, dp, games

[PavelKunyavskiy's solution](#)

831.

1394C

[Boboniu and String](#) · [Tutorial](#)

Quality: 1,224 global accepts · Rating: 2600 · first AC: 2020-08-12 · C++17 (GCC 7-32) (first AC) · Tags: binary search, geometry, ternary search

[PavelKunyavskiy's solution](#)

832.

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

[PavelKunyavskiy's solution](#)

833.

1326F1

[Wise Men \(Easy Version\)](#) · [Tutorial](#)

Quality: 1,007 global accepts · Rating: 2600 · first AC: 2020-03-19 · C++17 (GCC 7-32) (first AC) · Tags: bitmasks, brute force, dp, meet-in-the-middle

[PavelKunyavskiy's solution](#)

834.

1237F

[Balanced Domino Placements](#) · [Tutorial](#)

Quality: 1,092 global accepts · Rating: 2600 · first AC: 2019-10-16 · C++17 (GCC 7-32) (first AC) · Tags: combinatorics, dp

[PavelKunyavskiy's solution](#)

835.

1158D

[Winding polygonal line](#) · [Tutorial](#)

Quality: 927 global accepts · Rating: 2600 · first AC: 2019-05-12 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, geometry, greedy, math

[PavelKunyavskiy's solution](#)

836.

633F

[The Chocolate Spree](#) · [Tutorial](#)

Quality: 1,386 global accepts · Rating: 2600 · first AC: 2016-02-26 · GNU C++11 (first AC) · Tags: dfs and similar, dp, graphs, trees

[PavelKunyavskiy's solution](#)

837.

607D

[Power Tree](#) · [Tutorial](#)

Quality: 643 global accepts · Rating: 2600 · first AC: 2015-12-23 · GNU C++11 (first AC) · Tags: data structures, trees

[PavelKunyavskiy's solution](#)

838.

528C

[Data Center Drama](#) · [Tutorial](#)

Rating: 2600 · first AC: 2015-03-17 · GNU C++0x (first AC) · Tags: constructive algorithms, graphs

[PavelKunyavskiy's solution](#)

839.

513E1

[Subarray Cuts](#) · [Tutorial](#)

Quality: 552 global accepts · Rating: 2600 · first AC: 2015-02-07 · GNU C++0x (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

840.

482C

[Game with Strings](#) · [Tutorial](#)

Quality: 993 global accepts · Rating: 2600 · first AC: 2014-10-24 · GNU C++0x (first AC) · Tags: bitmasks, dp, probabilities

[PavelKunyavskiy's solution](#)

841.

442D

[Adam and Tree](#) · [Tutorial](#)

Quality: 1,131 global accepts · Rating: 2600 · first AC: 2014-06-19 · GNU C++ (first AC) · Tags: data structures, trees

[PavelKunyavskiy's solution](#)

842.

436E

[Cardboard Box](#) · [Tutorial](#)

Quality: 1,822 global accepts · Rating: 2600 · first AC: 2014-06-13 · GNU C++ (first AC) · Tags: data structures, greedy

[PavelKunyavskiy's solution](#)

843.

380E

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

Quality: 351 global accepts · Rating: 2600 · first AC: 2014-01-12 · GNU C++ (first AC) · Tags: data structures

[PavelKunyavskiy's solution](#)

844.

372D

[Choosing Subtree is Fun](#) · [Tutorial](#)

Quality: 1,129 global accepts · Rating: 2600 · first AC: 2013-12-13 · GNU C++ (first AC) · Tags: binary search, data structures, dfs and similar, trees, two pointers

[PavelKunyavskiy's solution](#)

845.

360D

[Levko and Sets](#) · [Tutorial](#)

Quality: 487 global accepts · Rating: 2600 · first AC: 2013-11-10 · GNU C++ (first AC) · Tags: number theory

[PavelKunyavskiy's solution](#)

846.

346D

[Robot Control](#) · [Tutorial](#)

Quality: 841 global accepts · Rating: 2600 · first AC: 2013-09-20 · GNU C++ (first AC) · Tags: dp, graphs, shortest paths

[PavelKunyavskiy's solution](#)

847.

311D

[Interval Cubing](#) · [Tutorial](#)

Quality: 783 global accepts · Rating: 2600 · first AC: 2013-05-26 · GNU C++ (first AC) · Tags: data structures, math

[PavelKunyavskiy's solution](#)

848.

269D

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

Quality: 493 global accepts · Rating: 2600 · first AC: 2013-02-01 · GNU C++ (first AC) · Tags: data structures, dp, graphs, sortings

[PavelKunyavskiy's solution](#)

849.

261D

[Maxim and Increasing Subsequence](#) · [Tutorial](#)

Quality: 714 global accepts · Rating: 2600 · first AC: 2013-01-13 · GNU C++ (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

850.

241E

[Flights](#) · [Tutorial](#)

Quality: 1,383 global accepts · Rating: 2600 · first AC: 2012-11-01 · GNU C++ (first AC) · Tags: graphs, shortest paths

[PavelKunyavskiy's solution](#)

851.

142D

[Help Shrek and Donkey 2](#) · [Tutorial](#)

Quality: 403 global accepts · Rating: 2600 · first AC: 2012-01-12 · GNU C++ (first AC) · Tags: games

[PavelKunyavskiy's solution](#)

852.

140E

[New Year Garland](#) · [Tutorial](#)

Quality: 1,037 global accepts · Rating: 2600 · first AC: 2012-01-04 · GNU C++ (first AC) · Tags: combinatorics, dp

[PavelKunyavskiy's solution](#)

853.

60E

[Mushroom Gnomes](#) · [Tutorial](#)

Quality: 415 global accepts · Rating: 2600 · first AC: 2011-02-19 · GNU C++ (first AC) · Tags: math, matrices

[PavelKunyavskiy's solution](#)

854.

30D

[King's Problem?](#) · [Tutorial](#)

Quality: 498 global accepts · Rating: 2600 · first AC: 2010-09-24 · GNU C++ (first AC) · Tags: geometry, greedy

[PavelKunyavskiy's solution](#)

855.

1804F

[Approximate Diameter](#) · [Tutorial](#)

Quality: 1,175 global accepts · Rating: 2700 · first AC: 2023-03-12 · C++20 (GCC 11-64) (first AC) · Tags: binary search, divide and conquer, graphs, shortest paths

[PavelKunyavskiy's solution](#)

856.

1782F

[Bracket Insertion](#) · [Tutorial](#)

Rating: 2700 · first AC: 2023-01-15 · Kotlin 1.7 (first AC) · Tags: combinatorics, dp, probabilities, trees

[PavelKunyavskiy's solution](#)

857.

906D

[Power Tower](#) · [Tutorial](#)

Quality: 2,679 global accepts · Rating: 2700 · first AC: 2017-12-23 · GNU C++11 (first AC) · Tags: chinese remainder theorem, math, number theory

[PavelKunyavskiy's solution](#)

858.

623D

[Birthday](#) · [Tutorial](#)

Quality: 555 global accepts · Rating: 2700 · first AC: 2016-02-04 · GNU C++11 (first AC) · Tags: greedy, math, probabilities

[PavelKunyavskiy's solution](#)

859.

513E2

[Subarray Cuts](#) · [Tutorial](#)

Quality: 652 global accepts · Rating: 2700 · first AC: 2015-02-07 · GNU C++0x (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

860.

482D

[Random Function and Tree](#) · [Tutorial](#)

Quality: 595 global accepts · Rating: 2700 · first AC: 2014-10-24 · GNU C++0x (first AC) · Tags: combinatorics, dp, trees

[PavelKunyavskiy's solution](#)

861.

472F

[Design Tutorial: Change the Goal](#) · [Tutorial](#)

Quality: 301 global accepts · Rating: 2700 · first AC: 2014-09-28 · GNU C++0x (first AC) · Tags: constructive algorithms, math, matrices

[PavelKunyavskiy's solution](#)

862.

388D

[Fox and Perfect Sets](#) · [Tutorial](#)

Quality: 497 global accepts · Rating: 2700 · first AC: 2014-02-03 · GNU C++ (first AC) · Tags: math

[PavelKunyavskiy's solution](#)

863.

383E

[Vowels](#) · [Tutorial](#)

Quality: 4,315 global accepts · Rating: 2700 · first AC: 2014-01-20 · GNU C++ (first AC) · Tags: combinatorics, divide and conquer, dp

[PavelKunyavskiy's solution](#)

864.

367E

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

Quality: 1,389 global accepts · Rating: 2700 · first AC: 2013-11-26 · GNU C++ (first AC) · Tags: combinatorics, dp

[PavelKunyavskiy's solution](#)

865.

356D

[Bags and Coins](#) · [Tutorial](#)

Quality: 1,091 global accepts · Rating: 2700 · first AC: 2013-10-15 · GNU C++ (first AC) · Tags: bitmasks, constructive algorithms, dp, greedy
[PavelKunyavskiy's solution](#)

866.

293D

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

Quality: 261 global accepts · Rating: 2700 · first AC: 2013-04-22 · GNU C++ (first AC) · Tags: geometry, math, probabilities, two pointers
[PavelKunyavskiy's solution](#)

867.

241B

[Friends](#) · [Tutorial](#)

Quality: 982 global accepts · Rating: 2700 · first AC: 2012-11-01 · GNU C++ (first AC) · Tags: binary search, bitmasks, data structures, math
[PavelKunyavskiy's solution](#)

868.

1488H

[Build From Suffixes](#) · [Tutorial](#)

Quality: 70 global accepts · Rating: 2800 · first AC: 2021-03-09 · Kotlin 1.4 (first AC) · Tags: *special, combinatorics, data structures
[PavelKunyavskiy's solution](#)

869.

1394D

[Boboni and Jianghu](#) · [Tutorial](#)

Quality: 1,226 global accepts · Rating: 2800 · first AC: 2020-08-12 · C++17 (GCC 7-32) (first AC) · Tags: dp, greedy, sortings, trees
[PavelKunyavskiy's solution](#)

870.

986E

[Prince's Problem](#) · [Tutorial](#)

Quality: 898 global accepts · Rating: 2800 · first AC: 2018-05-30 · GNU C++11 (first AC) · Tags: brute force, data structures, math, number theory, trees
[PavelKunyavskiy's solution](#)

871.

908G

[New Year and Original Order](#) · [Tutorial](#)

Quality: 1,674 global accepts · Rating: 2800 · first AC: 2017-12-29 · GNU C++11 (first AC) · Tags: dp, math
[PavelKunyavskiy's solution](#)

872.

859F

[Ordering T-Shirts](#) · [Tutorial](#)

Quality: 228 global accepts · Rating: 2800 · first AC: 2017-09-16 · GNU C++11 (first AC) · Tags: greedy
[PavelKunyavskiy's solution](#)

873.

633G

[Yash And Trees](#) · [Tutorial](#)

Quality: 876 global accepts · Rating: 2800 · first AC: 2016-02-27 · GNU C++11 (first AC) · Tags: bitmasks, data structures, dfs and similar, math, number theory
[PavelKunyavskiy's solution](#)

874.

613D

[Kingdom and its Cities](#) · [Tutorial](#)

Quality: 4,035 global accepts · Rating: 2800 · first AC: 2016-01-14 · GNU C++11 (first AC) · Tags: dfs and similar, divide and conquer, dp, graphs, sortings, trees
[PavelKunyavskiy's solution](#)

875.

601E

[A Museum Robbery](#) · [Tutorial](#)

Quality: 1,141 global accepts · Rating: 2800 · first AC: 2015-11-24 · GNU C++11 (first AC) · Tags: data structures, dp
[PavelKunyavskiy's solution](#)

876.

549F

[Yura and Developers](#) · [Tutorial](#)

Quality: 1,034 global accepts · Rating: 2800 · first AC: 2015-06-06 · GNU C++11 (first AC) · Tags: data structures, divide and conquer
[PavelKunyavskiy's solution](#)

877.

360E

[Levko and Game](#) · [Tutorial](#)

Quality: 816 global accepts · Rating: 2800 · first AC: 2013-11-10 · GNU C++ (first AC) · Tags: graphs, greedy, shortest paths
[PavelKunyavskiy's solution](#)

878.

261E

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

Quality: 438 global accepts · Rating: 2800 · first AC: 2013-01-13 · GNU C++ (first AC) · Tags: brute force, dp, two pointers
[PavelKunyavskiy's solution](#)

879.

196D

[The Next Good String](#) · [Tutorial](#)

Quality: 599 global accepts · Rating: 2800 · first AC: 2012-06-12 · GNU C++ (first AC) · Tags: data structures, greedy, hashing, strings
[PavelKunyavskiy's solution](#)

880.

48F

[Snow sellers](#) · [Tutorial](#)

Quality: 189 global accepts · Rating: 2800 · first AC: 2011-03-31 · GNU C++ (first AC) · Tags: greedy, sortings
[PavelKunyavskiy's solution](#)

881.

48H

[Black and White](#) · [Tutorial](#)

Quality: 184 global accepts · Rating: 2800 · first AC: 2011-03-23 · GNU C++ (first AC) · Tags: constructive algorithms
[PavelKunyavskiy's solution](#)

882.

1198F

[GCD Groups 2](#) · [Tutorial](#)

Quality: 1,076 global accepts · Rating: 2900 · first AC: 2019-07-30 · C++17 (GCC 7-32) (first AC) · Tags: greedy, number theory, probabilities
[PavelKunyavskiy's solution](#)

883.

1028F

[Make Symmetrical](#) · [Tutorial](#)

Quality: 580 global accepts · Rating: 2900 · first AC: 2018-08-27 · C++17 (GCC 7-32) (first AC) · Tags: brute force
[PavelKunyavskiy's solution](#)

884.

708D

[Incorrect Flow](#) · [Tutorial](#)

Quality: 887 global accepts · Rating: 2900 · first AC: 2016-08-24 · GNU C++11 (first AC) · Tags: flows
[PavelKunyavskiy's solution](#)

885.

623C

[Electric Charges](#) · [Tutorial](#)

Quality: 526 global accepts · Rating: 2900 · first AC: 2016-02-04 · GNU C++11 (first AC) · Tags: binary search, dp
[PavelKunyavskiy's solution](#)

886.

314E

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

Quality: 396 global accepts · Rating: 2900 · first AC: 2013-06-07 · GNU C++ (first AC) · Tags: dp
[PavelKunyavskiy's solution](#)

887.

1290D

[Coffee Varieties \(hard version\)](#) · [Tutorial](#)

Quality: 948 global accepts · Rating: 3000 · first AC: 2020-02-02 · C++17 (GCC 7-32) (first AC) · Tags: constructive algorithms, graphs, interactive

[PavelKunyavskiy's solution](#)

888.

1149D

[Abandoning Roads](#) · [Tutorial](#)

Quality: 967 global accepts · Rating: 3000 · first AC: 2019-04-29 · C++17 (GCC 7-32) (first AC) · Tags: brute force, dp, graphs, greedy

[PavelKunyavskiy's solution](#)

889.

1097G

[Vladislav and a Great Legend](#) · [Tutorial](#)

Quality: 1,054 global accepts · Rating: 3000 · first AC: 2019-01-04 · C++17 (GCC 7-32) (first AC) · Tags: combinatorics, dp, trees

[PavelKunyavskiy's solution](#)

890.

1028G

[Guess the number](#) · [Tutorial](#)

Quality: 647 global accepts · Rating: 3000 · first AC: 2018-08-27 · C++17 (GCC 7-32) (first AC) · Tags: dp, interactive

[PavelKunyavskiy's solution](#)

891.

582E

[Boolean Function](#) · [Tutorial](#)

Quality: 547 global accepts · Rating: 3000 · first AC: 2015-10-03 · GNU C++11 (first AC) · Tags: bitmasks, dp, expression parsing

[PavelKunyavskiy's solution](#)

892.

526F

[Pudding Monsters](#) · [Tutorial](#)

Quality: 3,408 global accepts · Rating: 3000 · first AC: 2015-04-04 · GNU C++11 (first AC) · Tags: data structures, divide and conquer

[PavelKunyavskiy's solution](#)

893.

1949H

[Division Avoidance](#) · [Tutorial](#)

Quality: 165 global accepts · Rating: 3100 · first AC: 2024-03-24 · Rust 2021 (first AC) · Tags: greedy, math

[PavelKunyavskiy's solution](#)

894.

1770F

[Koxia and Sequence](#) · [Tutorial](#)

Quality: 945 global accepts · Rating: 3100 · first AC: 2022-12-30 · C++20 (GCC 11-64) (first AC) · Tags: bitmasks, combinatorics, dp, math, number theory

[PavelKunyavskiy's solution](#)

895.

908H

[New Year and Boolean Bridges](#) · [Tutorial](#)

Quality: 460 global accepts · Rating: 3100 · first AC: 2017-12-29 · GNU C++11 (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

896.

662E

[To Hack or not to Hack](#) · [Tutorial](#)

Quality: 164 global accepts · Rating: 3100 · first AC: 2016-04-15 · GNU C++11 (first AC) · Tags: brute force, dp, greedy

[PavelKunyavskiy's solution](#)

897.

513G3

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

Quality: 291 global accepts · Rating: 3100 · first AC: 2015-02-07 · GNU C++0x (first AC) · Tags: dp

[PavelKunyavskiy's solution](#)

898.

1746E2

[Joking \(Hard Version\)](#) · [Tutorial](#)

Quality: 484 global accepts · Rating: 3200 · first AC: 2022-10-15 · Kotlin 1.6 (first AC) · Tags: dp, interactive

[PavelKunyavskiy's solution](#)

899.

1326F2

[Wise Men \(Hard Version\)](#) · [Tutorial](#)

Quality: 679 global accepts · Rating: 3200 · first AC: 2020-03-19 · last AC: 2020-03-20 · C++17 (GCC 7-32) (first AC) · Tags: bitmasks, dp, math

[PavelKunyavskiy's solution](#)

900.

759E

[Byteland coins](#) · [Tutorial](#)

Rating: 3200 · first AC: 2017-01-22 · GNU C++11 (first AC) · Tags: dp, math

[PavelKunyavskiy's solution](#)

901.

744E

[Hongcow Masters the Cyclic Shift](#) · [Tutorial](#)

Quality: 149 global accepts · Rating: 3200 · first AC: 2016-12-17 · GNU C++11 (first AC) · Tags: strings, two pointers

[PavelKunyavskiy's solution](#)

902.

1489G

[Make It Connected](#) · [Tutorial](#)

Rating: — · first AC: 2021-03-02 · last AC: 2021-03-02 · Kotlin 1.4 (first AC) · Tags: *special, graphs

[PavelKunyavskiy's solution](#)

903.

1489F

[Boxes Packing](#) · [Tutorial](#)

Rating: — · first AC: 2021-03-02 · Kotlin 1.4 (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

904.

1489E

[Books Queries](#) · [Tutorial](#)

Rating: — · first AC: 2021-03-02 · Kotlin 1.4 (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

905.

1489D

[Substrings Sort](#) · [Tutorial](#)

Rating: — · first AC: 2021-03-02 · Kotlin 1.4 (first AC) · Tags: *special, sortings

[PavelKunyavskiy's solution](#)

906.

1489C

[File Name](#) · [Tutorial](#)

Rating: — · first AC: 2021-03-02 · Kotlin 1.4 (first AC) · Tags: *special, strings

[PavelKunyavskiy's solution](#)

907.

1489B

[Water Buying](#) · [Tutorial](#)

Rating: — · first AC: 2021-03-02 · Kotlin 1.4 (first AC) · Tags: *special, math

[PavelKunyavskiy's solution](#)

908.

1489A

[Remove Duplicates](#) · [Tutorial](#)

Rating: — · first AC: 2021-03-02 · Kotlin 1.4 (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

909.

1357E1

[Power of quantum Fourier transform](#) · [Tutorial](#)

Quality: 195 global accepts · Rating: — · first AC: 2020-06-19 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

910.

1357C2

[Prepare superposition of basis states with the same parity](#) · [Tutorial](#)

Quality: 307 global accepts · Rating: — · first AC: 2020-06-19 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

911.

1357C1

[Prepare superposition of basis states with 0s](#) · [Tutorial](#)

Quality: 350 global accepts · Rating: — · first AC: 2020-06-19 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

912.

1357B2

["Is the number divisible by 3?" oracle](#) · [Tutorial](#)

Quality: 216 global accepts · Rating: — · first AC: 2020-06-19 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

913.

1357B1

["Is the bit string balanced?" oracle](#) · [Tutorial](#)

Quality: 216 global accepts · Rating: — · first AC: 2020-06-19 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

914.

1357A7

[Distinguish Y, XZ, -Y and -XZ](#) · [Tutorial](#)

Quality: 185 global accepts · Rating: — · first AC: 2020-06-19 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

915.

1357A6

[Distinguish four Pauli gates](#) · [Tutorial](#)

Quality: 170 global accepts · Rating: — · first AC: 2020-06-19 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

916.

1357A5

[Distinguish Rz\(·\) from Ry\(·\)](#) · [Tutorial](#)

Quality: 243 global accepts · Rating: — · first AC: 2020-06-19 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

917.

1357A4

[Distinguish Rz from R1](#) · [Tutorial](#)

Quality: 354 global accepts · Rating: — · first AC: 2020-06-19 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

918.

1357A3

[Distinguish H from X](#) · [Tutorial](#)

Quality: 481 global accepts · Rating: — · first AC: 2020-06-19 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

919.

1357A2

[Distinguish I, CNOTs and SWAP](#) · [Tutorial](#)

Quality: 513 global accepts · Rating: — · first AC: 2020-06-19 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

920.

1357A1

[Figure out direction of CNOT](#) · Tutorial

Quality: 634 global accepts · Rating: — · first AC: 2020-06-19 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

921.

1356C

[Prepare state \$|01\rangle + |10\rangle + |11\rangle\$](#) · Tutorial

Quality: 305 global accepts · Rating: — · first AC: 2020-06-12 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

922.

1356B2

[Decrement](#) · Tutorial

Quality: 287 global accepts · Rating: — · first AC: 2020-06-12 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

923.

1356B1

[Increment](#) · Tutorial

Quality: 286 global accepts · Rating: — · first AC: 2020-06-12 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

924.

1356A5

[Distinguish Z from -Z](#) · Tutorial

Quality: 334 global accepts · Rating: — · first AC: 2020-06-12 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

925.

1356A4

[Distinguish I "— X from CNOT](#) · Tutorial

Quality: 461 global accepts · Rating: — · first AC: 2020-06-12 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

926.

1356A3

[Distinguish Z from S](#) · Tutorial

Quality: 463 global accepts · Rating: — · first AC: 2020-06-12 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

927.

1356A2

[Distinguish I from Z](#) · Tutorial

Quality: 490 global accepts · Rating: — · first AC: 2020-06-12 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

928.

1356A1

[Distinguish I from X](#) · Tutorial

Quality: 606 global accepts · Rating: — · first AC: 2020-06-12 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

929.

1331D

[Again?](#) · Tutorial

Quality: 12,102 global accepts · Rating: — · first AC: 2020-04-01 · C++17 (GCC 9-64) (first AC) · Tags: *special, implementation

[PavelKunyavskiy's solution](#)

930.

1331A

[Is it rated?](#) · Tutorial

Quality: 17,507 global accepts · Rating: — · first AC: 2020-04-01 · C++17 (GCC 9-64) (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

931.

1116B1

[Distinguish three-qubit states](#) · [Tutorial](#)

Quality: 136 global accepts · Rating: — · first AC: 2019-03-02 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

932.

1116D5

[Creeper](#) · [Tutorial](#)

Quality: 152 global accepts · Rating: — · first AC: 2019-03-02 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

933.

1116A2

[Generate equal superposition of four basis states](#) · [Tutorial](#)

Quality: 184 global accepts · Rating: — · first AC: 2019-03-01 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

934.

1116A1

[Generate state \$|00\rangle + |01\rangle + |10\rangle\$](#) · [Tutorial](#)

Quality: 328 global accepts · Rating: — · first AC: 2019-03-01 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

935.

1116C3

["Is the number of ones divisible by 3?" oracle](#) · [Tutorial](#)

Quality: 187 global accepts · Rating: — · first AC: 2019-03-01 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

936.

1116C2

["Is the bit string periodic?" oracle](#) · [Tutorial](#)

Quality: 189 global accepts · Rating: — · first AC: 2019-03-01 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

937.

1116C1

[Alternating bits oracle](#) · [Tutorial](#)

Quality: 267 global accepts · Rating: — · first AC: 2019-03-01 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

938.

1116D4

[TIE fighter](#) · [Tutorial](#)

Quality: 171 global accepts · Rating: — · first AC: 2019-03-01 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

939.

1116D3

[X-wing fighter](#) · [Tutorial](#)

Quality: 207 global accepts · Rating: — · first AC: 2019-03-01 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

940.

1116D2

[Pattern of increasing blocks](#) · [Tutorial](#)

Quality: 236 global accepts · Rating: — · first AC: 2019-03-01 · Q# (first AC) · Tags: *special
[PavelKunyavskiy's solution](#)

941.

1116D1

[Block diagonal matrix](#) · [Tutorial](#)

Quality: 278 global accepts · Rating: — · first AC: 2019-03-01 · Q# (first AC) · Tags: *special

[PavelKunyavskiy's solution](#)

942.

100140A

[AÄ000AC,,<C ;DÄ=D´9 Cö>D\\$>C](#)

Rating: — · first AC: 2017-07-22 · GNU C++11 (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

943.

100514N

[tirnaoeumPt](#) · Tutorial

Rating: — · first AC: 2014-11-01 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

944.

100514C

[Pgkpxumgs](#) · Tutorial

Rating: — · first AC: 2014-11-01 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

945.

100514B

[:-P](#) · Tutorial

Rating: — · first AC: 2014-11-01 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

946.

100514H

[Peace of AmericaReunion](#) · Tutorial

Rating: — · first AC: 2014-11-01 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

947.

100514J

[Common](#) · Tutorial

Rating: — · first AC: 2014-11-01 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

948.

100514K

[Crap](#) · Tutorial

Rating: — · first AC: 2014-11-01 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

949.

100514M

[oPlus](#) · Tutorial

Rating: — · first AC: 2014-11-01 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

950.

100514O

[0x](#) · Tutorial

Rating: — · first AC: 2014-11-01 · Python 2 (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

951.

100514I

[Peace of AmericanPie](#) · Tutorial

Rating: — · first AC: 2014-11-01 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

952.

100514R

[6227020800](#) · Tutorial

Rating: — · first AC: 2014-11-01 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

953.

100514Q

[Peace of bzd](#) · [Tutorial](#)

Rating: — · first AC: 2014-11-01 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

954.

100514A

[Bank](#) · [Tutorial](#)

Rating: — · first AC: 2014-11-01 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

955.

100343G

[Transportation Problem](#) · [Tutorial](#)

Rating: — · first AC: 2014-03-20 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

956.

100343D

[Night Watch](#) · [Tutorial](#)

Rating: — · first AC: 2014-03-20 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

957.

100343E

[Convex Permutominoes](#) · [Tutorial](#)

Rating: — · first AC: 2014-03-20 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

958.

100343J

[Wheels within Wheels](#) · [Tutorial](#)

Rating: — · first AC: 2014-03-20 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

959.

100343A

[Kingdom Division](#) · [Tutorial](#)

Rating: — · first AC: 2014-03-20 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

960.

100343F

[Substring Search](#) · [Tutorial](#)

Rating: — · first AC: 2014-03-20 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

961.

100343H

[Truth is in the...](#) · [Tutorial](#)

Rating: — · first AC: 2014-03-20 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

962.

100343I

[Video on Demand](#) · [Tutorial](#)

Rating: — · first AC: 2014-03-20 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

963.

100343C

[Late Again](#) · [Tutorial](#)

Rating: — · first AC: 2014-03-20 · GNU C++0x (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

964.

100343B

[Financial Software](#) · [Tutorial](#)

Rating: — · first AC: 2014-03-20 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

965.

100341B

[Astronomy Problem](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-21 · last AC: 2014-01-21 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

966.

100341A

[Agrarian Reform](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-21 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

967.

100341H

[Perfect Lodging](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-21 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

968.

100341C

[AVL Trees](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-21 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

969.

100341G

[3D Knight](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-21 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

970.

100341D

[Block Edit Distance](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-21 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

971.

100341F

[Independent Set](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-21 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

972.

100341I

[Hungry Queen 2](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-21 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

973.

100341E

[Cryptography](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-21 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

974.

100341J

[Trip Expenses](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-21 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

975.

100153I

[Shepherd's Problem](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-14 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

976.

100153F

[Infinite Recursion](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-14 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

977.

100153E

[Shortest Path](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-14 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

978.

100153J

[Suffix Automaton](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-14 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

979.

100153D

[Minimal Cut Matrix](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-14 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

980.

100153H

[School of Magic](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-14 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

981.

100153B

[Discount](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-14 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

982.

100153G

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

Rating: — · first AC: 2014-01-14 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

983.

100153A

[War Academy](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-14 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

984.

100153C

[Dowry](#) · [Tutorial](#)

Rating: — · first AC: 2014-01-14 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

985.

100314D

[Obfuscation](#) · [Tutorial](#)

Rating: — · first AC: 2013-12-12 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

986.

100314B

[Booking](#) · [Tutorial](#)

Rating: — · first AC: 2013-12-12 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

987.

100314F

[Inverse Addition](#) · [Tutorial](#)

Rating: — · first AC: 2013-12-12 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

988.

100236J

[Jokey Problem!](#) · [Tutorial](#)

Rating: — · first AC: 2013-10-05 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

989.

100236B

[Bentago](#) · [Tutorial](#)

Rating: — · first AC: 2013-10-05 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

990.

100236M

[Marbles](#) · [Tutorial](#)

Rating: — · first AC: 2013-10-05 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

991.

100236I

[ICPC Team Selection](#) · [Tutorial](#)

Rating: — · first AC: 2013-10-05 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

992.

100236H

[Hungry Robot](#) · [Tutorial](#)

Rating: — · first AC: 2013-10-05 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

993.

100236G

[General Sohrab and General Sepehr!](#) · [Tutorial](#)

Rating: — · first AC: 2013-10-05 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

994.

100236L

[Lexicographically Minimal Poem](#) · [Tutorial](#)

Rating: — · first AC: 2013-10-05 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

995.

100236K

[Killer Challenge](#) · [Tutorial](#)

Rating: — · first AC: 2013-10-05 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

996.

100236D

[Dreamer Land of Kashan](#) · [Tutorial](#)

Rating: — · first AC: 2013-10-05 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

997.

100236E

[Era of Winter Triangle](#) · [Tutorial](#)

Rating: — · first AC: 2013-10-05 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

998.

100236C

[Combination Lock](#) · [Tutorial](#)

Rating: — · first AC: 2013-10-05 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

999.

100236F

[Find The Problem!](#) · [Tutorial](#)

Rating: — · first AC: 2013-10-05 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1000.

100236A

[Arrangement of RGB Balls](#) · [Tutorial](#)

Rating: — · first AC: 2013-10-05 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1001.

100109D

[Divide The Kingdom](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-25 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1002.

100109H

[Sultan's Pearls](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-25 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1003.

100109K

[Tree Queries Online](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-25 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1004.

100109G

[Database Optimization](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-25 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1005.

100109F

[Dumbbells](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-25 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1006.

100109J

[Ternary Password](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-25 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1007.

100109B

[Chess Championship](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-25 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1008.

100109E

[Dragons and Princesses](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-25 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1009.

100109L

[Preparing Problem](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-25 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1010.

100096H

[Ritual](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-12 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1011.

100096I

[Stars](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-12 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1012.

100096C

[General Bytor](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-12 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1013.

100096B

[Cylinders](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-12 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1014.

100096E

[Medical examination](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-12 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1015.

100096A

[Athletic competition](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-12 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1016.

100096K

[Table game](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-12 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1017.

100096D

[Guessing game](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-12 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1018.

100096F

[NumberEater](#) · [Tutorial](#)

Rating: — · first AC: 2012-10-12 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1019.

100016C

[Crossword](#) · [Tutorial](#)

Rating: — · first AC: 2012-08-19 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1020.

100016A

[King's Assassination](#) · [Tutorial](#)

Rating: — · first AC: 2012-08-19 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1021.

100016J

[Taxi](#) · [Tutorial](#)

Rating: — · first AC: 2012-08-19 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1022.

100016I

[Lies, Damned Lies and Statistics](#) · [Tutorial](#)

Rating: — · first AC: 2012-08-19 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1023.

100016D

[Group Stage](#) · [Tutorial](#)

Rating: — · first AC: 2012-08-19 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1024.

100052D

[D](#) · [Tutorial](#)

Rating: — · first AC: 2012-06-11 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1025.

100052L

[L](#) · [Tutorial](#)

Rating: — · first AC: 2012-06-11 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1026.

100052K

[K](#) · [Tutorial](#)

Rating: — · first AC: 2012-06-11 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1027.

100052G

[G](#) · [Tutorial](#)

Rating: — · first AC: 2012-06-11 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1028.

100052E

[E](#) · [Tutorial](#)

Rating: — · first AC: 2012-06-11 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1029.

100052A

[A](#) · [Tutorial](#)

Rating: — · first AC: 2012-06-11 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1030.

100052I

[I · Tutorial](#)

Rating: — · first AC: 2012-06-11 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1031.

100052F

[F · Tutorial](#)

Rating: — · first AC: 2012-06-11 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1032.

100052B

[B · Tutorial](#)

Rating: — · first AC: 2012-06-11 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1033.

100052J

[J · Tutorial](#)

Rating: — · first AC: 2012-06-11 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)

1034.

100052H

[H · Tutorial](#)

Rating: — · first AC: 2012-06-11 · GNU C++ (first AC) · Tags: —

[PavelKunyavskiy's solution](#)