MartinKysel.com

CODE MADE HUMAN

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HackerRank Solutions

Over the course of the next few (actually many) days, I will be posting the solutions to previous Hacker Rank challenges. The page is a good start for people to solve these problems as the time constraints are rather forgiving. I have most solutions in C++, but I will be trying to post them in Python. The language is more readable. Recently I started adding Rust code as well.

My public HackerRank profile here.

I have solutions to all listed solutions. If the solution is not listed, I have not solved it yet. If there is no link, it means that I did not parse the algorithm to a readable format yet.

RECENT POSTS

Warmup and Implementation

- [Easy] ACM ICPC Team
- [Easy] Alternating Characters
- [Easy] Angry Professor
- [Easy] Beautiful Triplets
- [Easy] Caesar Cipher
- [Easy] Cavity Map
- [Easy] Chocolate Feast
- [Easy] Circular Array Rotation
- [Easy] Compare Triplets
- [Easy] Cut the Sticks
- [Easy] Diagonal Difference
- [Easy] Divisible Sum Pairs
- [Easy] Equal Stacks
- [Easy] Fair Rations
- [Easy] Filling Jars
- [Easy] Find Digits
- [Easy] Flatland Space Stations
- [Easy] Flipping Bits
- [Easy] Game of Thrones – 1
- [Easy] Halloween Party
- [Easy] Identify Smith Numbers
- [Easy] Is Fibo
- [Easy] Jumping on the Clouds
- [Easy] Jumping on the Clouds: Revisited
- [Easy] Kangaroo
- [Easy] Library Fine

the Clouds' Solution

- [Easy] Lisa's Workbook
- [Easy] Lonely Integer
- [Easy] Manasa and Stones
- [Easy] Maximizing XOR
- [Easy] Minimum Distances
- [Easy] Non-Divisible Subset
- [Easy] Plus Minus
- [Easy] Save the Prisoner!
- [Easy] Service Lane
- [Easy] Sherlock and GCD
- [Easy] Sherlock and Squares
- [Easy] Sherlock and The Beast
- [Easy] Staircase
- [Easy] Taum and B'Day
- ~~[Easy] The Kaprekar Numbers~~
- [Easy] The Love-Letter Mystery
- [Easy] Time Conversion
- [Easy] Utopian Tree
- [Moderate] Absolute Permutation
- [Moderate] Almost Sorted
- [Moderate] Bigger is Greater
- [Moderate] Ema's Supercomputer
- [Moderate] Encryption
- ~~[Moderate] Extra Long Factorials~~
- [Moderate] Larry's Array
- [Moderate] Max Min
- [Moderate] New Year Chaos
- [Moderate] The Grid Search
- ~~[Moderate] The Time in Words~~
- [Difficult] [Algo] Matrix Rotation
- [Difficult] The Bomberman Game

CATEGORIES

Arrays and Sorting

- [Easy] Closest Numbers
- [Moderate] Sherlock and Pairs
- [Moderate] Sherlock and Watson
- [Advanced] Insertion Sort Advanced Analysis

Search

- [Easy] Encryption
- [Easy] Ice Cream Parlor
- [Easy] Sherlock and Array
- [Moderate] Beautiful Quadruples
- [Moderate] Circle City
- [Moderate] Connected Cell in a Grid
- [Moderate] Cut the tree
- [Moderate] Count Luck
- [Moderate] Find Maximum Index Product
- [Moderate] Gena Playing Hanoi
- [Moderate] Missing Numbers
- [Moderate] Number List
- [Moderate] Pairs
- [Moderate] Short Palindrome
- [Moderate] The Grid Search
- [Difficult] Absolute Element Sums
- [Difficult] Bike Racers
- [Difficult] Journey Scheduling
- [Difficult] King Richard's Knights
- [Difficult] Maximum Subarray Sum
- [Difficult] Median Updates
- [Difficult] Playing with numbers

Misuse (1)
Php (1)
Python (118)
Rust (12)

Social (4)
Uncategorized (2)

RECENT COMMENTS

Subhankar Das on HackerRank 'Sherlock and Squares' Solution
Martin 'Vegi' Kysel on HackerRank 'Divisible Sum Pairs' Solution
Martin 'Vegi' Kysel on Codility 'MinMaxDivision' Solution
Martin 'Vegi' Kysel on Codility 'MissingInteger' Solution
David on Codility 'MissingInteger' Solution

- [Advanced] Similar Pair
- [Advanced] Task Scheduling

Dynamic Programming

- [Easy] The Maximum Subarray
- [Moderate] Bricks Game
- [Moderate] Candies
- [Moderate] Fibonacci Modified
- [Moderate] Hexagonal Grid
- [Moderate] Knapsack
- [Moderate] Red John is Back
- [Moderate] Stock Maximize
- [Moderate] Substring Diff
- [Moderate] The Coin Change Problem
- [Moderate] The Longest Common Subsequence
- [Moderate] XOR and SUM
- [Advanced] The Longest Increasing Subsequence
- [Expert] Lucky Numbers
- .....

Strings

- [Easy] Alternating Characters
- [Easy] Anagram
- [Easy] Beautiful Binary String
- [Easy] Caesar Cipher
- [Easy] Camel Case
- [Easy] Funny String
- [Easy] Game of Thrones – I
- [Easy] Gem Stones

BADGES

- [Easy] Make It Anagram
- [Easy] Mars Exploration
- [Easy] Palindrome Index
- [Easy] Pangrams
- [Easy] Richie Rich
- [Easy] String Construction
- [Easy] Super Reduced String
- [Easy] The Love-Letter Mystery
- [Easy] Two Strings
- [Moderate] Bear and Steady Game
- [Moderate] Sherlock and Anagrams
- [Moderate] Yet Another KPM Problem
- [Difficult] Ashton and String
- [Difficult] Build a Palindrome
- [Difficult] Build a String
- [Difficult] Circular Palindromes
- [Difficult] Common Child
- [Difficult] Count Strings
- [Difficult] Find Strings
- [Difficult] Gridland Provinces
- [Difficult] Letter Islands
- [Difficult] Morgan and a String
- [Difficult] Palindromic Border
- [Difficult] Pseudo-Isomorphic Substrings
- [Difficult] Sherlock and Valid String
- [Difficult] Save Humanity
- [Difficult] String Function Calculation
- [Difficult] String Similarity
- [Difficult] Two Strings Game
- [Difficult] Two Two
- ....

Bit Manipulation

- [Easy] Cipher
- [Easy] Flipping Bits
- [Easy] Lonely Integer
- [Moderate] A or B
- [Moderate] AND Product
- [Moderate] Cipher
- [Moderate] Counter Game
- [Moderate] Sansa and XOR
- [Moderate] What's Next?
- [Moderate] Xor-sequence
- [Difficult] 2's Complement
- [Difficult] Changing Bits
- [Difficult] Hamming Distance
- [Difficult] String Transmission
- [Difficult] Manipulative Numbers
- [Difficult] Stone Game
- [Difficult] String Transmission
- [Difficult] XOR Key
- [Difficult] XOR Subsequences
- [Difficult] Xoring Ninja

Join the discussion…

theslomo • 4 months ago

Great solutions. By any chance you know anyone who answered these challenges

Reply • Share ›

Jay Patel • 5 months ago

Hi Martin,
Can you please provide code for Xor-sequence in Python3 in O(1)? Or just provide
Thanks.

Reply • Share ›

Kusu025 • 6 months ago

Hi Martin..Do you have Hackerrank QA challenge Questions & Answers..If you ha

Reply • Share ›

Martin 'Vegi' Kysel Mod ➚ Kusu025 • 5 months ago

Hi Kusu,

unfortunately I haven't solved any challenge in the the AI segment. Did yo
https://www.hackerrank.com/cha...

Reply • Share ›

Sidharth Samant • 8 months ago

Hi Martin. I noticed you haven't posted the code for Bigger is Greater. It's part of t

you working on it or did you intentionally leave it because it's too easy?

Reply • Share ›

Martin 'Vegi' Kysel Mod ➚ Sidharth Samant • 8 months ago

I have many solutions in C++ from older days but I never translated them I've done it now on your request: http://www.martinkysel.com/hac...

Reply • Share ›

Sidharth Samant ➚ Martin 'Vegi' Kysel • 8 months ago

Oh, that's okay! I'd already done it. But thanks anyway! :)
Just one question, I tried using the itertools.permutations class to so on the permutations generator to go to the next permutation, but it out the entire list of permutations in lexicographic order, to see wha like they show in the example here - https://docs.python.org/2/libr. size 2). But what I noticed, is that when I did permutations('abcd'), in order. But when I passed in 'bdac' as the argument, it didn't print about that?

Reply • Share ›

Martin 'Vegi' Kysel Mod ➚ Sidharth Samant • 7 months ago

Yes. The param r in itertooms.permutations does not define t but the number of elements from the array that should be us

permutations("ABC", 2) generates AB, BC, AC and yields the need to consume the first.

```
from itertools import permutations
s = list("CDBA")
print "---list of all perm---"
for value in permutations(s):
    print value

print "--- list of perm of size 2---"
for value in permutations(s, 2):
    print value

print "---- get next perm ----"
generator = permutations(s)
```

see more

Reply • Share ›

Sidharth Samant ➦ Martin 'Vegi' Kysel • 7 months ago

I see. Thank you!

Reply • Share ›

Trần Minh Tấn • 8 months ago

Hi Guys,
I have a question hackerrank with detail:

Billy is testing an experimental slot machine that has unequal spinning wheels tha
wheel can have any number of stops from 1 to 9. If it has f stops, then its stops are
every spin, every wheel will show one stop number in the slot machine's window, l
the window will be random. On any spin, each stop of a wheel has the same proba

window as every other stop on that wheel. Billy runs a series of up to 50 test spins
digits visible in the window.

Given the list all the test results, find the minimum possible total number of stops
machine that could have given rise to that series of results.

Format:
The code to parse the input and print the output is already provided. You are to co
in the language chosen, which takes an array of strings of digits and returns an int

Constraints:
The test results will contain between 1 and 50 spin notes, inclusive.

see more

• Reply • Share ›

Martin 'Vegi' Kysel Mod ➚ Trần Minh Tấn • 8 months ago

I haven't seen this task yet. Do you have a link? Google is not of much help
ongoing competition on HR?

• Reply • Share ›

gvs chaitanya ➚ Martin 'Vegi' Kysel • 7 months ago

HI , martin can u please post the solutons for Breadth First Search: Subtree

• Reply • Share ›

Martin 'Vegi' Kysel Mod ➚ gvs chaitanya • 7 months ago

Primm's algorithm to do so. There are plenty of implement
that Kruskal might be hard as you need some disjoint-set stru
have not yet started the graph theory so you will have to solv
sharing it here ;)

Reply • Share ›

gvs chaitanya ➚ Martin 'Vegi' Kysel • 7 months ago

ok sure !wil be sharing it once i finish it .

Cheers

Reply • Share ›

Tom English • a year ago

Hi Martin,
Thanks for the solutions. I am an intermediate-to-advanced developer. I've been tr
Hackerrank and I've done several. Thanks for posting your solutions, especially sin
what I use for Hackerrank. I was wondering have you tried the Morgan and a Stri
I've been beating my head against it for a while now but I can only get it to pass 9
17 fail for me. I've downloaded test cases 10 and 11 to debug on my PC and as far a
But obviously there is a solution that is evading me. Have you tried it? Do you hav
my code on the discussion forum for the problem (user te777) so you can look at it
you could post back here or on the discussion forum if you have any suggestions o
I really would appreciate your help.

Reply • Share ›

Alex ➚ Tom English • a year ago

Reply • Share ›

ALSO ON **CODE MADE HUMAN**

HackerRank ‘Sherlock and Valid String’ Solution

3 comments • 10 months ago•

Sidharth Samant — Ah yes, that doesn't work. Sigh.... I was so glad that I'd finally done something on my own. ...

HackerRank ‘Ice Cream

4 comments • 2 years ago•

Sidharth Samant — Hi
sorted() function has O
...

HackerRank ‘Matrix Rotation’ Solution

2 comments • a year ago•

Martin 'Vegi' Kysel — as you wish.

HackerRank ‘Pangrams’

1 comment • 2 years ago•

Martin 'Vegi' Kysel — T
Geekygeek, how the co
getCharCnt ...