

**BEGINNERS FRIENDLY**



# **30-DAY CHALLENGE**

## **FOR LOGIC BUILDING**

### **PROBLEM-SOLVING SHEET**



**BY SIDDHARTH SINGH**

A stylized, handwritten signature in black ink, located in the bottom right corner of the page.

"YOUR **FUTURE** IS CREATED BY WHAT  
YOU DO **TODAY**  
NOT TOMORROW"



SIDDHARTH **SINGH**



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**ARRAY**

**RECURSION**

**BIT**

**STRING**

**SEARCHING**

**SORTING**

**WEEK**

**Ques.**

**Language**

**WEEK 1**

**24**

**C/C++**

**WEEK 2**

**24**

**Java**

**WEEK 3**

**24**

**WEEK 4**

**23**

**TOTAL  
QUESTION**

**WEEK 5**

**5**

**100**

**BECOME 6 STAR HACKERRANK CODER**





# Week 1

"Success is a journey, not a destination."  
-Arthur Ashe

Platform:



DAY 1
1. <a href="#">Solve Me First</a>
2. <a href="#">Simple Array Sum</a>
3. <a href="#">Compare the Triplets</a>
4. <a href="#">A Very Big Sum</a>

DAY 2
1. <a href="#">Diagonal Difference</a>
2. <a href="#">Plus Minus</a>
3. <a href="#">Staircase</a>
4. <a href="#">Mini-Max Sum</a>

DAY 3
1. <a href="#">Birthday Cake Candles</a>
2. <a href="#">Time Conversion</a>
3. <a href="#">Grading Students</a>
4. <a href="#">Apple and Orange</a>

DAY 4
1. <a href="#">Number Line Jumps</a>
2. <a href="#">Breaking the Records</a>
3. <a href="#">Subarray Division</a>
4. <a href="#">Divisible Sum Pairs</a>

DAY 5
1. <a href="#">Migratory Birds</a>
2. <a href="#">Day of the Programmer</a>
3. <a href="#">Bill Division</a>
4. <a href="#">Sales by Match</a>

DAY 6
1. <a href="#">Drawing Book</a>
2. <a href="#">Counting Valleys</a>
3. <a href="#">Electronics Shop</a>
4. <a href="#">Cats and a Mouse</a>



DAY 7	CHILL DAY	BACKLOG COVER
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# Week 2

"Consistent hard work leads to success. Greatness will come."  
– Dwayne Johnson

Platform:



## DAY 8

1. [Forming a Magic Square](#)
2. [Picking Numbers](#)
3. [Climbing the Leaderboard](#)
4. [The Hurdle Race](#)

## DAY 9

1. [Designer PDF Viewer](#)
2. [Utopian Tree](#)
3. [Angry Professor](#)
4. [Beautiful Days](#)

## DAY 10

1. [Viral Advertising](#)
2. [Save the Prisoner!](#)
3. [Circular Array Rotation](#)
4. [Sequence Equation](#)

## DAY 11

1. [Library Fine](#)
2. [Cut the sticks](#)
3. [Repeated String](#)
4. [Jumping on the Clouds](#)

## DAY 12

1. [Jumping on the Clouds 2](#)
2. [Find Digits](#)
3. [Append and Delete](#)
4. [Sherlock and Squares](#)

## DAY 13

1. [Equalize the Array](#)
2. [ACM ICPC Team](#)
3. [Taum and B'day](#)
4. [Organizing Containers](#)

## DAY 14

CHILL DAY

BACKLOG  
COVER





# Week 3

" Don't stop when you are tired , stop when you are done. "  
- Wesley Snipes

Platform:



## DAY 15

1. [Encryption](#)
2. [Modi Kaprekar Nums](#)
3. [Beautiful Triplets](#)
4. [Minimum Distances](#)

## DAY 16

1. [Halloween Sale](#)
2. [Chocolate Feast](#)
3. [Service Lane](#)
4. [Lisa's Workbook](#)

## DAY 17

1. [Fair Rations](#)
2. [Cavity Map](#)
3. [Manasa and Stones](#)
4. [The Grid Search](#)

## DAY 18

1. [Happy Ladybugs](#)
2. [Strange Counter](#)
3. [Tutorial Challenges](#)
4. [CamelCase](#)

## DAY 19

1. [Insertion Sort - Part 1](#)
2. [Strong Password](#)
3. [Insertion Sort - Part 2](#)
4. [Loop Invariant](#)

## DAY 20

1. [Caesar Cipher](#)
2. [Mars Exploration](#)
3. [Run Time of Algorithms](#)
4. [HackerRank in a String!](#)

## DAY 21

CHILL DAY

BACKLOG  
COVER





# Week 4

" Don't wish it easier , wish you were better . "

- Jim Rohn

Platform:



## DAY 22

1. [Pangrams](#)
2. [Separate the Numbers](#)
3. [Funny String](#)
4. [Counting Sort 1](#)

## DAY 23

1. [Counting Sort 2](#)
2. [Gemstones](#)
3. [Alternating Characters](#)
4. [Beautiful Binary String](#)

## DAY 24

1. [Love-Letter Mystery](#)
2. [Anagram](#)
3. [Making Anagrams](#)
4. [Game of Thrones - I](#)

## DAY 25

1. [Two Strings](#)
2. [String Construction](#)
3. [Extra Long Factorials](#)
4. [Non-Divisible Subset](#)

## DAY 26

1. [Queen's Attack II](#)
2. [Bigger is Greater](#)
3. [Flatland Space Stations](#)
4. [3D Surface Area](#)

## DAY 27

1. [Absolute Permutation](#)
2. [Larry's Array](#)
3. [Almost Sorted](#)



## DAY 28

CHILL DAY

BACKLOG  
COVER



# Week 5

" If its important you will find a way , if not you will find an excuse "  
- Michelle Ruiz

Platform:



## DAY 29

1. Matrix Layer Rotation
2. Super Reduced String
3. Two Characters

## DAY 30

1. Weighted Uniform Strings
2. Sherlock and Anagrams

# Congratulations



## 6 STAR



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♥ From SIDDHARTH SINGH