BASIC PROGRAMMES

1. https://www.hackerrank.com/contests/smart-interviews-basic/challenges/si-basic-the-missing-number
2. https://www.hackerrank.com/contests/smart-interviews-basic/challenges/si-basic-compute-area-of-rectangle
3. https://www.hackerrank.com/contests/smart-interviews-basic/challenges/si-basic-triangle-validator
4. https://www.hackerrank.com/contests/smart-interviews-basic/challenges/si-basic-number-reverse
5. https://www.codechef.com/problems/DISCNT
6. https://www.codechef.com/problems/TVDISC
7. https://www.codechef.com/problems/CHEFCAND
8. http://codechef.com/problems/SUGARCANE
9. https://www.codechef.com/problems/DIFFSUM
10. https://www.hackerrank.com/contests/smart-interviews-basic/challenges/si-basic-squares-sum
11. https://www.codechef.com/problems/MANIPULATE
12. https://www.codechef.com/problems/CREDSCORE
13. https://www.codechef.com/problems/COURSEREG
14. https://www.codechef.com/problems/THREETOPICS
15. https://www.codechef.com/problems/TAXES

Arrays

1. https://www.hackerrank.com/contests/smart-interviews-basic/challenges/si-basic-max-element
2. https://www.hackerrank.com/contests/smart-interviews-basic/challenges/si-basic-reverse-array
3. https://www.hackerrank.com/contests/smart-interviews-basic/challenges/si-basic-print-unique-elements-of-array
4. https://codeforces.com/problemset/problem/405/A
5. https://www.codechef.com/problems/CRCTEAM

2D-arrays: Matrices

1. https://www.hackerrank.com/contests/smart-interviews-basic/challenges/si-basic-matrix-row-sum
2. https://www.hackerrank.com/contests/smart-interviews-basic/challenges/si-basic-matrix-column-sum
3. https://www.hackerrank.com/contests/smart-interviews-basic/challenges/si-basic-transpose-matrix

Loops

1. https://www.codechef.com/problems/WATERCONS
2. https://www.codechef.com/problems/NONNEGPROD
3. https://www.codechef.com/problems/AMBIDEXTROUS
4. https://www.codechef.com/problems/STOCKMARKET

patterns

1. https://www.hackerrank.com/contests/smart-interviews-basic/challenges/si-basic-hollow-rectangle-pattern
2. https://www.hackerrank.com/contests/smart-interviews-basic/challenges/si-basic-print-half-diamond-pattern
3. https://www.hackerrank.com/contests/smart-interviews-basic/challenges/si-basic-inverted-pyramid-pattern

EXTRA ARRAY QUESTIONS

Question 1: Frequency of Each Number

Problem:
Given an array **A** of size **N** containing numbers from **1 to N**, find the frequency of each number in the array.

Input:

```
5
1 3 2 1 4
```

Output:

```
1: 2
2: 1
3: 1
4: 1
5: 0
```

Question 2: Count Distinct Numbers

Problem:
Given an array **A** of size **N**, find how many distinct numbers are present in the array.

Input:

```
5
1 2 1 3 1
```

Output:

Question 3: Find Maximum Element

Problem:
Find the maximum element in a given array of integers.

Input:

```
5
-2 -19 8 15 4
```

Output:

```
15
```

Question 4: Sum of Odd Elements

Problem:
Print the sum of all odd elements in an array.

Input:

```
5
6 9 8 4 3
```

Output:

```
12
```

Question 5: Find Duplicate Element

Problem:
Find a duplicate element in the given array of integers. There will be only a single duplicate element in the array.

Input:

```
6
5 4 10 9 21 10
```

Output:

```
10
```