TCS Digital Programming Questions

1. Check the Sudoku

Given a input 9 x 9 Sudoku matrix check whether a the table is a solution or not

Print – “Yes” if it is a solution

Print – “No” if it is not a solution

Input 1:

3 1 6 5 7 8 4 9 2

5 2 9 1 3 4 7 6 8

4 8 7 6 2 9 5 3 1

2 6 3 4 1 5 9 8 7

9 7 4 8 6 3 1 2 5

8 5 1 7 9 2 6 4 3

1 3 8 9 4 7 2 5 6

6 9 2 3 5 1 8 7 4

7 4 5 2 8 6 3 1 9

Output 1:

Yes

Input 2:

3 1 3 5 7 8 4 9 9

5 2 9 1 3 4 7 6 7

4 8 7 6 2 9 5 3 3

2 6 3 4 1 5 9 8 4

9 7 4 8 6 3 1 2 6

8 5 1 7 9 2 6 6 3

1 3 8 9 4 7 2 5 6

6 9 2 3 5 1 8 7 4

7 4 5 2 8 6 3 1 9

Output 2:

No

1. Given a input string and n value of the value print the output.

Input:

ZOHOCORPORATION

3

Output:

ZCOIOOOPRTOHRAN

Explanation:

Z C O I

O O O P R T O

H R A N

1. Given n value and form an NxN matrix and input the value. Get the starting row and column from the users and transverse through the 2D array

Input: 5

1 6 11 16 21

2 7 12 17 22

3 8 13 18 23

4 9 15 19 24

5 10 16 20 25

0 0

Output:

1 2 3 4 5 10 9 8 7 6 11 12 13 14 15 20 19 18 17 16 21 22 23 24 25

Input: 5

1 6 11 16 21

2 7 12 17 22

3 8 13 18 23

4 9 15 19 24

5 10 16 20 25

4 0

Output:

5 4 3 2 1 6 7 8 9 10 11 12 13 14 15 20 19 18 17 16 21 22 23 24 25

1. Given an input number print the following pattern (Note: DO NOT USE ARRAY)

Input: 5

Output:

1

2 9

3 8 10

4 7 11 14

5 6 12 13 15

1. **Given an input array reverse the numbers between two zeros**

**Input: 1 4 2 0 6 19 12 0 11 30**

**Output: 2 4 1 0 12 19 6 0 30 11**

1. **Input n as input and input n strings print the 2 strings in camel case and their exact mirror image with cases altered**

**Input:**

**2**

**Gautham**

**Problem**

**Output**

**G a U t H a M**

**p R o B l E m**

**P r O b L e M**

**g A u T h A m**