#### \*\*Problem Statement 1:

Write a C Program to reverse each and every word in a given sentence.

#### Constraints:

1<t<100

1<= number of characters in the input <= 10^8

#### Input:

First line denotes the number of test cases.

Followed by 't' sentences.

#### Output:

Each word of respective input should be reversed.

#### Sample input:

7

C is the most efficient programming language even today.

Plagarism leads to 'F' grade.

# Sample output:

C si eht tsom tneiciffe gnimmargorp egaugnal neve yadot. msiragalP sdael ot 'F' edarg.

#### KeyNote:

".' is taken as input and it should print at the end of the output too.

#### \*\*Problem Statement 2:-

Design a program to verify the consecutive ones property for the given 2D binary matrix of mxn.

## Consecutive Ones Property:-

In every row and column if there are ones they should be consective.

#### Constraints:-

1<t<100

n<100

#### Input:-

First line denotes the number of test cases.

In each test case, first line denates the value of m and n seperated with spaces.

Followed by m lines with n elements in each line.

# Output:-

0 - if it is not following the consecutive ones property.

1 - if it is following the consecutive ones property

# Sample Input:-

2

23

011

111

33

111

 $\begin{matrix} 0 & 1 & 1 \\ 1 & 0 & 1 \end{matrix}$ 

Sample Output:

1

0

#### Note:-

If there are no ones, still it should print 1.

# Problem Statement 3: **[EASY]**Given an integer, check whether it is a palindrome or not. Constratints:-1 < t < 100 $0 < = n < = 2 \land 40$ Input:First line denotes number of testcases. Next t lines are some integers. Output:-0 - if it is not a palindrome. 1 - if it is a Palindrome.

# Sample input:-

Sample Output:-

#### \*Problem Statement 4:-

Design a C Program which counts number of letters, numbers of words and number of lines in a given short story.

#### Constraints:-

1<t<100

0<number of characters<10^8

#### Input:-

First line indicates number of test cases.

Followed by t short stories.

#### Output:-

letter count, Word count, Line count of respective input in a single line seperated with spaces.

# Sample Input:-

1

Vaishnav is the most intelligent fellow of IIIT Sri City. He is one of the busiest person in college. He knows everything.

# Sample Output:-

98 22 2

# \*\*Problem Statement 5:-

Design a program to print the pascal triangle of n lines

# Constarints:- 1<t<100

n<=50

# Input:-

First line indicates number of test cases. Next t lines gives the value of n.

# Output:-

n lined pascal triangle.

Sample Input:-

1

4

Sample Output:-

1

11

121

1331

# \*\*\*Bonus Question: Problem Statement:

Creating a Fractal Tree from inverted Y-shaped branches of n iterations.

# Constraints:

0<=n<=15

# Input Format:

First line denotes the number of test cases.

Next lines denotes the value of n.

# Output Format:

respective pattern should be printed.

#### Sample Input:

1 2

# Sample Output: