DATA SCIENCE
ASSIGNMENT-1

Note: Take all inputs at runtime.

QUES 1. Input 2 integers A and B. Print A<B, A>B, A=B depending on the values.

QUES 2: Given an integer. Find if its multiple of 2 or not.

QUES 3.Input an integer n and print the following pattern :
EXAMPLE:
n=4
1
1 2
1 2 3
1 2 3 4

QUES 4: Given an integer n. Find n!
EXAMPLE:
 n=5
output: 120

QUES 5: Given a number tell if it's a prime or not.

QUES 6: Given an n*n matrix. Print the diagonal elements of the matrix
EXAMPLE:
Input:
3
1 2 3
4 5 6
7 8 9
output:
1 5 9
3 5 7

QUES 7: Given a string. Print the reverse of the string.
EXAMPLE:
Input:
 I love machine learning
Output:
I evol enihcam gninrael

QUES 8: Given a 1D array. Sort it through bubble sort algo.

BONUS QUES:

Q: Extend question 4 to print following pattern:

```
1         1
12       21
123    321
12344321
```
Q: Given a 2d matrix. Print the elements in spiral order.