Day-7 Time : 1 hour 30 min(12:00-01:30)

Question no 1.

Write the code for bfs and dfs in such a way that it should also handle the case of different disconnected components as well.

Question no 2.

It's Gary's birthday today and he has ordered his favourite square cake consisting of '0's and '1's . But Gary wants the biggest piece of '1's and no '0's . A piece of cake is defined as a part which consist of only '1's, and all '1's share an edge with each other on the cake. Given the size of cake N and the cake, can you find the count of '1's in the biggest piece of '1's for Gary ?

Input Format :

The first line of input contains an integer, that denotes the value of N.
Each of the following N lines contains N space-separated integers.

Output Format :

Print the count of '1's in the biggest piece of '1's, according to the description in the task.

Constraints :

1 <= N <= 1000

Sample Input 1:

2
1 1
0 1

Sample Output 1:

3

Question no 3.

Implement the concept of stack using an array. You have to maintain all the different functions like-
i.)Insert
ii.)delete
iii.) top element
iv.) size of the stack
v.) is_stack empty of not…. ..
Implement using array – use only one single array.