

Connecting the graph

You are given a graph with **n** vertices and **m** edges.

You can remove **one** edge from anywhere and add that edge between **any** two vertices in **one** operation.

Find the **minimum** number of operation that will be required to make the graph connected.

If it is not possible to make the graph connected, return -1.

Example 1:

Input:

n=4

m=3

Edge= [[0, 1] , [0, 2] , [1, 2]]

Output:

1

Explanation:

Remove edge between vertices 1 and 2 and add between vertices 1 and 3.

Example 2:

Input:

n=6

m=5

Edge= [[0,1] , [0,2] , [0,3] , [1,2] , [1,3]]

Output:

2

Explanation:

Remove edge between (1,2) and (0,3) and add edge between (1,4) and (3,5)

Your Task:

You don't need to read or print anything. Your task is to complete the function **Solve()** which takes an integer **n** denoting no. of vertices and a matrix **edge[][]** denoting the edges of graph and return the **minimum** number of operation to connect a graph

Constraints:

$$1 \leq n \leq 10^5$$

$$0 \leq m \leq 10^5$$

$$0 \leq \text{edge}[i][0], \text{edge}[i][1]$$