

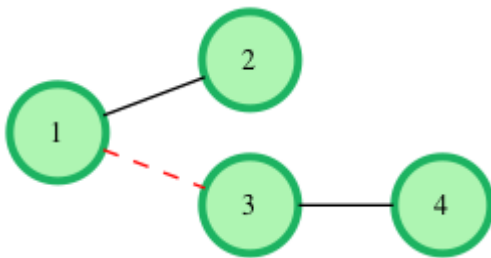
Problem D. Even Tree

OS Linux

You are given a tree (a simple connected graph with no cycles).

Find the maximum number of edges you can remove from the tree to get a [forest](#) such that each connected component of the forest contains an even number of nodes.

As an example, the following tree with 4 nodes can be cut at most 1 time to create an even forest.



Function Description

Complete the *evenForest* function in the editor below. It should return an integer as described.

evenForest has the following parameter(s):

- *t_nodes*: the number of nodes in the tree
- *t_edges*: the number of undirected edges in the tree
- *t_from*: start nodes for each edge
- *t_to*: end nodes for each edge, (Match by index to *t_from*.)

Input Format

The first line of input contains two integers *t_nodes* and *t_edges*, the number of nodes and edges. The next *t_edges* lines contain two integers *t_from*[*i*] and *t_to*[*i*] which specify nodes connected by an edge of the tree. The root of the tree is node 1.

Constraints

- $2 \leq n \leq 100$
- $n \in \mathbb{Z}_{\text{even}}^+$

Note: The tree in the input will be such that it can always be decomposed into components containing an even number of nodes. $\mathbb{Z}_{\text{even}}^+$ is the set of positive even integers.

Output Format

Print the number of removed edges.