Problem F. Tgraph

Input file	`stdin`
Output file	`stdout`

Task

You are given an undirected graph with n nodes and m edges. Your task is to compute the number of triangles in the graph.

A triangle is a set of three distinct nodes $\{u, v, w\}$ such that all three edges (u, v), (v, w), and (w, u) exist in the graph.

Input Data

The first line contains two integers n and m — the number of nodes and edges in the graph.

Each of the next m lines contains two integers u and v ($1 \le u, v \le n, u \ne v$), representing an undirected edge between nodes u and v.

It is guaranteed that there are no multiple edges and no self-loops.

Output Data

Output a single integer — the number of triangles in the graph.

Constraints

- $1 \le n \le 10^5$
- $0 \le m \le 10^5$

Examples

Input file	Output file
4 5 1 2 2 3 3 1 1 4 2 4	2