Count Pairs

Given a undirected graph with n veritces and m edges. Your taks is count the number of distinct pairs (u, v) that there is exist a path with length exactly 2 from u to v. Another mean, with each pair (u, v), we could find a vertex t that we have an edge (u, t) and (t, v). The input set may be contains multiple edge between any vertex and not consider to connected.

Input

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- First line: n, m (1 <= n, m <= 10^5).
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- m following line: $u, v (1 \le u, v \le n)$.

Output

The number of distinct pairs.

Example

Input:

54

2 1

15

3 1

4 3

Output:

4

Note: we have (1, 4), (2, 3), (2, 5), (3, 5)