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## D. A Simple Task

time limit per test: 2 seconds memory limit per test: 256 megabytes

Given a simple graph, output the number of simple cycles in it. A simple cycle is a cycle with no repeated vertices or edges.

### Input

The first line of input contains two integers n and m ( $1 \le n \le 19$ ,  $0 \le m$ ) – respectively the number of vertices and edges of the graph. Each of the subsequent m lines contains two integers a and b, ( $1 \le a, b \le n, a \ne b$ ) indicating that vertices a and b are connected by an undirected edge. There is no more than one edge connecting any pair of vertices.

### Output

Output the number of cycles in the given graph.

### **Examples**



### Note

The example graph is a clique and contains four cycles of length 3 and three cycles of length 4.

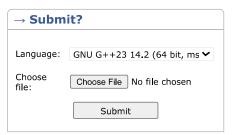
# Codeforces Beta Round 11 Finished Practice

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Start virtual contest





→ Last submissions		
Submission	Time	Verdict
<u>325679051</u>	Jun/23/2025 14:48	Accepted





The only programming contests Web 2.0 platform Server time:  $Jun/23/2025 18:48:26^{UTC+7}$  (k1). Desktop version, switch to mobile version.

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