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(CODECHEF Certified) Data Structure & Algorithms Programme (CCDSAP)

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Sereja and Salesman | Problem Code: SEAKAM









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All submissions for this problem are available.

Read problems statements in Mandarin Chinese, Russian and Vietnamese as well.

Sereja has an undirected graph on ${\bf N}$ vertices. There are edges between all but ${\bf M}$ pairs of vertices.

A permutation p on the vertices of the graph is represented as p[1], p[2], ..., p[N] such that for all i, p[i] is a vertex of the graph. A permutation is called connected if there is an edge between vertices p[i] and p[i+1] for all natural numbers i less than N. Sereja wants to know the number of connected permutations on the graph vertices.

Input

First line of input contains a single integer T, denoting the number of test cases. T tests follow. First line of each test case contains two integers, N and M. M lines follow, each containing a pair of indices of vertices, indicating that those vertices are not connected by an edge.

Output

For each test case, output one number — the answer for the problem modulo 109+7.

Constraints

- $1 \le T \le 10$
- $1 \le N \le 10^5$
- $0 \le M \le 7$

Subtasks

- **Subtask #1: 1** ≤ **N** ≤ **10** (25 points)
- Subtask #2: 1 ≤ N ≤ 100 (25 points)
- Subtask #3: 1 ≤ N ≤ 1000 (25 points)

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4 3

1 2

2 3

3 4

2 1

1 2

Output:

2

0

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Tester: 6★ antoniuk1

Editorial: http://discuss.codechef.com/problems/SEAKAM

Tags: combinatorics, dp+bitmask, jan16, medium, sereja

Date Added: 14-10-2014

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.5, CS2, PAS fpc, PAS gpc, RUBY,

PHP, GO, NODEJS, HASK, SCALA, D, PERL, FORT, WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM qobi, PIKE, ST, NICE, LUA, BASH, NEM, LISP sbcl, LISP clisp, SCM guile, JS,

ERL, TCL, PERL6, TEXT, CLOJ, FS

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CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

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