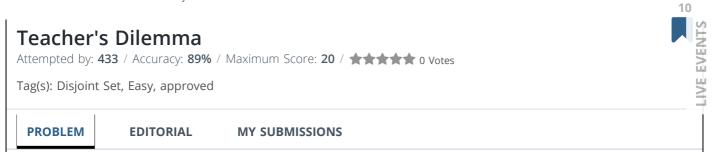


All Tracks > Data Structures > Disjoint Data Structures > > Problem



Monk is having a hard time teaching the 2^{nd} standard students. He wants to divide the students into small groups so that he can conduct some fun-filled activities for them. But students also want their friends in the same group. So, if student A is a friend of student B, and student B is a friend of student C, then the students A_iB and C must be in the same group, otherwise they will start crying. After dividing the students, he will choose a leader from each group who will lead their respective groups. Now he wants to know the number of ways he can choose the group leaders from all the groups. Print this answer modulo $10^9 + 7$.

Note: Two ways A and B will be considered different if at least 1 person is a leader in group A, and is not a leader in group B, or vice-versa.

Input:

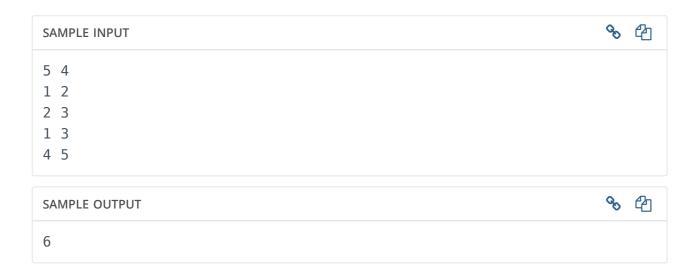
The first line consists of two integers N and M denoting the number of students and the number of relationships respectively. The next M lines consists of two integers u and v denoting that student uand student v are friends. u and v can never be equal and relationships are not repeated.

Output:

Print the answer modulo $10^9 + 7$ in a single line.

Constraints:

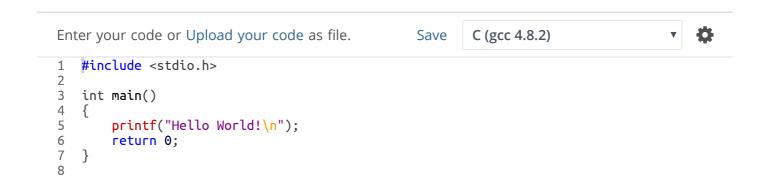
- $1 < N < 10^5$
- $1 < M < 10^5$
- $1 \le u, v \le N$



Explanation

Time Limit: 1.0 sec(s) for each input file. **Memory Limit:** 256 MB **Source Limit:** 1024 KB **Marking Scheme:** Marks are awarded when all the testcases pass. Allowed Languages: C, C++, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Scala 2.11.8, Swift, Visual Basic

CODE EDITOR



1:1 ■ Provide custom input **COMPILE & TEST SUBMIT** POWERED BY code table Press Ctrl-space for autocomplete suggestions. Your Rating: Like Tweet

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