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Summary

Title	Test Problem with Mathematical Expressions
Source	Test Platform
URL	https://example.com/problem/1
Difficulty	Easy
Tags	
Scraped on	2025-08-25

Problem Statement

Given integers N and M, find the number of ways to arrange them such that $1 \le N \le 10^6$ and $2 \le M \le N \times 2$. The answer should be computed modulo $10^9 + 7$.

Input

First line contains T (1 \leq T \leq 5). Each test case contains two integers N and M (1 \leq N \leq 1000, 1 \leq M \leq 1000).

Output

For each test case, output the result on a separate line.

Constraints

 $1 \le T \le 5 \ n1 \le N \le 1000 \ n1 \le M \le 1000 \ nN \times M \le 10^6 \ nThe sum of all test cases is at most <math display="inline">6 \times 10^5$

Sample Test Cases

Sample 1

```
Input:
```

```
Output:
```

Generated on 2025-08-25 12:30:53 UTC