## Problem I. Counting Good Arrays

Input file: standard input

Output file: standard output
We consider an array consisting of positive integers $\left\{a_{1}, a_{2}, \ldots, a_{n}\right\}$ of length $n$ is good if and only if for each $1 \leq i<n, a_{i+1}$ is divisible by $a_{i}$. Please note that we consider all the arrays with length 1 are good. Given two integers $n$ and $m$, please count the number of good arrays whose length is no greater than $n$ and whose largest element is no greater than $m$. Since the answer may be large, you just need to output the answer modulo $10^{9}+7$.

## Input

The first line of the input contains a single integer $T\left(1 \leq T \leq 10^{3}\right)$, denoting the number of test cases.
Each of the next $T$ lines contains two integers $n$, $m\left(1 \leq n, m \leq 10^{9}\right)$, denoting a test case.
It's guaranteed that the number of test cases satisfying $\max (n, m)>10^{3}$ will not exceed 50 , the number of test cases satisfying $\max (n, m)>10^{6}$ will not exceed 10 , and the number of test cases satisfying $\max (n, m)>10^{8}$ will not exceed 1 .

## Output

For each test case, output the answer modulo $10^{9}+7$ in a single line.

## Example

| standard input | standard output |  |  |
| :--- | :--- | :--- | :--- |
| 5 | 4 | 12 |  |
| 3 | 5 | 31 |  |
| 10 | 12 | 3915 |  |
| 24 | 17 | 190204 |  |
| 114514 | 1919810 | 13530870 |  |

## Note

All the good arrays with $n=2, m=4$ are:

- $\{1\},\{2\},\{3\},\{4\}$
- $\{1,1\},\{1,2\},\{1,3\},\{1,4\}$
- $\{2,2\},\{2,4\}$
- $\{3,3\}$
- $\{4,4\}$

