标签 SDOI 下的文章

「SDOI 2017」数字表格 (https://blog.orzsiyuan.com/archives/SDOI-2017-Number-Table/)

> 题目链接：LOJ 2000 (https://loj.ac/problem/2000)

Doris 刚刚学习了 Fibnacci 数列，用 $f[i]$ 表示数列的第 i 项，那么：

$$f[0] = 0$$
$$f[1] = 1$$
$$f[n] = f[n-1] + f[n-2], n \geq 2$$

Doris 用老师的超级计算机生成了一个 $n \times m$ 的表格，第 i 行第 j 列的格子中的数是 $f[\gcd(i,j)]$，其中 $\gcd(i,j)$ 表示 i 与 j 的最大公约数。

Doris 的表格中共有 $n \times m$ 个数，她想知道这些数的乘积是多少。

这些数的乘积实在是太大了，所以 Doris 只想知道乘积对 $10^9 + 7$ 取模后的结果。

本题有 T 组数组。

数据范围：$1 \leq T \leq 1000$，$1 \leq n, m \leq 10^6$。

Siyuan (https://blog.orzsiyuan.com/author/1/) 2019 年 05 月 18 日

「SDOI 2016」生成魔咒 (https://blog.orzsiyuan.com/archives/SDOI-2016-Magic-Spell/)

> 题目链接：LOJ 2033 (https://loj.ac/problem/2033)

魔咒串由许多魔咒字符组成，魔咒字符可以用数字表示。例如可以将魔咒字符 1、2 拼凑起来形成一个魔咒串 $[1, 2]$。

一个魔咒串 S 的非空子串被称为魔咒串 S 的生成魔咒。

例如 $S = [1, 2, 1]$ 时，它的生成魔咒有 $[1]$、$[2]$、$[1, 2]$、$[2, 1]$、$[1, 2, 1]$ 五种。$S = [1, 1, 1]$ 时，它的生成魔咒有 $[1]$、$[1, 1]$、$[1, 1, 1]$ 三种。

最初 S 为空串。共进行 n 次操作，每次操作是在 S 的结尾加入一个魔咒字符。每次操作后都需要求出，当前的魔咒串 S 共有多少种生成魔咒。

数据范围：$1 \le n \le 10^5$，$1 \le \Sigma \le 10^9$。

Siyuan (https://blog.orzsiyuan.com/author/1/) 2019 年 05 月 15 日

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