

# 标签 多项式自然对数 下的文章

🏠 首页 (<https://blog.orzsiyuan.com/>) / 多项式自然对数

「Luogu 4841」城市规划 (<https://blog.orzsiyuan.com/archives/Luogu-4841-City-Planning/>)

题目链接: Luogu 4841 (<https://www.luogu.org/problemnew/show/P4841>)

阿狸的国家有  $n$  个城市，现在国家需要在某些城市对之间建立一些贸易路线，使得整个国家的任意两个城市都直接或间接的连通。

为了省钱，每两个城市之间最多只能有一条直接的贸易路径。对于两个建立路线的方案，如果存在一个城市对，在两个方案中是否建立路线不一样，那么这两个方案就是不同的，否则就是相同的。现在你需要求出一共有多少不同的方案。

换句话说，你需要求出  $n$  个点的简单（无重边无自环）无向连通图数目。由于这个数字可能非常大，你只需要输出方案数对  $1004535809 = 479 \times 2^{21} + 1$  取模的值即可。

数据范围： $1 \leq n \leq 1.3 \times 10^5$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 07 月 06 日

「算法笔记」多项式自然对数 (<https://blog.orzsiyuan.com/archives/Polynomial-Natural-Logarithm/>)

✓ 通过简单的求导和不定积分可以求出多项式的自然对数。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 06 月 19 日

「算法笔记」多项式模板 (<https://blog.orzsiyuan.com/archives/Polynomial-Template/>)

✓ 本文记录了多项式基本操作的模板，持续更新！

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 03 月 30 日



## 热门文章

([https://blog.2019游记 \(https://blog.orzsiyuan.com/archives/ZJOI-2019/\)](https://blog.2019游记 (https://blog.orzsiyuan.com/archives/ZJOI-2019/))  
2019/) 眼 6051

([https://blog.2019算法模板复习 \(https://blog.orzsiyuan.com/archives/hehezhou-AK-CSP-2019/\)](https://blog.2019算法模板复习 (https://blog.orzsiyuan.com/archives/hehezhou-AK-CSP-2019/))

AK- 眼 2892

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2019/) ([https://blog.多项式模板 \(https://blog.orzsiyuan.com/archives/Polynomial-Template/\)](https://blog.多项式模板 (https://blog.orzsiyuan.com/archives/Polynomial-Template/))) 1080

([https://blog.2017数字表格 \(https://blog.orzsiyuan.com/archives/SDOI-2017-Number-Table/\)](https://blog.2017数字表格 (https://blog.orzsiyuan.com/archives/SDOI-2017-Number-Table/))  
2017- 眼 1028

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Table/) ([https://blog.2019单唱om跳舞和篮球 \(https://blog.orzsiyuan.com/archives/TJOI-2019-Sing-2019-Dance-Rap-and-Basketball/\)](https://blog.2019单唱om跳舞和篮球 (https://blog.orzsiyuan.com/archives/TJOI-2019-Sing-2019-Dance-Rap-and-Basketball/))

Sing- 眼 843

Dance-

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## 博客信息

文章数目	187
评论数目	243
运行天数	1年25天
最后活动	4 个月前

## 标签云

[Codeforces \(<https://blog.orzsiyuan.com/tag/Codeforces/>\)](https://blog.orzsiyuan.com/tag/Codeforces/)

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