

# 标签 矩阵快速幂 下的文章

🏠 首页 (<https://blog.orzsiyuan.com/>) / 矩阵快速幂

「Luogu 1357」花园 (<https://blog.orzsiyuan.com/archives/Luogu-1357-Garden/>)

题目链接: Luogu 1357 (<https://www.luogu.org/problemnew/show/P1357>)

小 L 有一座环形花园，沿花园的顺时针方向，他把各个花圃编号为 \$1\$ 到 \$n\$。他的环形花园每天都会换一个新花样，但他的花园都不外乎一个规则，任意相邻 \$m\$ 个花圃中有不超过 \$k\$ 个 \$C\$ 形的花圃，其余花圃均为 \$P\$ 形的花圃。

请帮小 L 求出符合规则的花园种数，答案对 \$10^9 + 7\$ 取模。

数据范围: \$2 \leq n \leq 10^{15}\$, \$2 \leq m \leq 5\$, \$1 \leq k < m\$。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏲ 2019 年 03 月 18 日



## 热门文章

(<https://blog.orzsiyuan.com/archives/ZJOI-2019/>)  
2019/ ⚡ 6051

(<https://blog.orzsiyuan.com/archives/hehezhou-AK-CSP-2019/>)

AK- ⚡ 2892

CSP-

2019/ (<https://blog.orzsiyuan.com/archives/Polynomial-Template/>)  
Template ⚡ 1080

(<https://blog.orzsiyuan.com/archives/SDOI-2017-Number-Table/>)  
2017- ⚡ 1028

Number-

Table/ (<https://blog.orzsiyuan.com/archives/TJOI-2019-Sing-Dance-Rap-and-Basketball/>)  
Sing- ⚡ 843  
Dance-

Rap-  
and-  
Basketball/)

## 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

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- [多项式三角函数 \(https://blog.orzsiyuan.com/tag/%E5%A4%9A%E9%A1%B9%E5%BC%8F%E4%88%89%E8%A7%92%E5%BC%8F/\)](https://blog.orzsiyuan.com/tag/%E5%A4%9A%E9%A1%B9%E5%BC%8F%E4%88%89%E8%A7%92%E5%BC%8F/)
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- [欧拉定理 \(https://blog.orzsiyuan.com/tag/Euler-Theorem/\)](https://blog.orzsiyuan.com/tag/Euler-Theorem/)
- [Kruskal 重构树 \(https://blog.orzsiyuan.com/tag/Extended-Kruskal/\)](https://blog.orzsiyuan.com/tag/Extended-Kruskal/)

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- (矩阵树定理 (<https://blog.orzsiyuan.com/tag/Matrix-Tree-Theorem/>) LIS (<https://blog.orzsiyuan.com/tag/LIS/>)
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- (切比雪夫距离 (<https://blog.orzsiyuan.com/tag/Chebyshev-Distance/>)
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