

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



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📄 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

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[生成树 \(https://blog.orzsiyuan.com/tag/Spanning-Tree/\)](https://blog.orzsiyuan.com/tag/Spanning-Tree/)[矩阵树定理 \(https://blog.orzsiyuan.com/tag/Matrix-Tree-Theorem/\)](https://blog.orzsiyuan.com/tag/Matrix-Tree-Theorem/)[LIS \(https://blog.orzsiyuan.com/tag/LIS/\)](https://blog.orzsiyuan.com/tag/LIS/)[曼哈顿距离 \(https://blog.orzsiyuan.com/tag/Manhattan-Distance/\)](https://blog.orzsiyuan.com/tag/Manhattan-Distance/)[切比雪夫距离 \(https://blog.orzsiyuan.com/tag/Chebyshev-Distance/\)](https://blog.orzsiyuan.com/tag/Chebyshev-Distance/)[CQOI \(https://blog.orzsiyuan.com/tag/CQOI/\)](https://blog.orzsiyuan.com/tag/CQOI/)[树套树 \(https://blog.orzsiyuan.com/tag/Tree-Nested-Tree/\)](https://blog.orzsiyuan.com/tag/Tree-Nested-Tree/)[LCA \(https://blog.orzsiyuan.com/tag/LCA/\)](https://blog.orzsiyuan.com/tag/LCA/)[质数 \(https://blog.orzsiyuan.com/tag/Prime-Number/\)](https://blog.orzsiyuan.com/tag/Prime-Number/)[矩阵快速幂 \(https://blog.orzsiyuan.com/tag/Matrix-Fast-Power/\)](https://blog.orzsiyuan.com/tag/Matrix-Fast-Power/)[FHQ Treap \(https://blog.orzsiyuan.com/tag/FHQ-Treap/\)](https://blog.orzsiyuan.com/tag/FHQ-Treap/)[POI \(https://blog.orzsiyuan.com/tag/POI/\)](https://blog.orzsiyuan.com/tag/POI/)[Kruskal \(https://blog.orzsiyuan.com/tag/Kruskal/\)](https://blog.orzsiyuan.com/tag/Kruskal/)[HAOI \(https://blog.orzsiyuan.com/tag/HAOI/\)](https://blog.orzsiyuan.com/tag/HAOI/)[四边形不等式 \(https://blog.orzsiyuan.com/tag/%E5%9B%9B%E8%BE%B9%E5%BD%A2%E4%B8%8D%E7%AD%89%E5%B](https://blog.orzsiyuan.com/tag/%E5%9B%9B%E8%BE%B9%E5%BD%A2%E4%B8%8D%E7%AD%89%E5%B)[点分治 \(https://blog.orzsiyuan.com/tag/%E7%82%B9%E5%88%86%E6%B2%BB/\)](https://blog.orzsiyuan.com/tag/%E7%82%B9%E5%88%86%E6%B2%BB/)[拓扑排序 \(https://blog.orzsiyuan.com/tag/%E6%8B%93%E6%89%91%E6%8E%92%E5%BA%8F/\)](https://blog.orzsiyuan.com/tag/%E6%8B%93%E6%89%91%E6%8E%92%E5%BA%8F/)[CodeChef \(https://blog.orzsiyuan.com/tag/CodeChef/\)](https://blog.orzsiyuan.com/tag/CodeChef/)[最小流 \(https://blog.orzsiyuan.com/tag/%E6%9C%80%E5%B0%8F%E6%B5%81/\)](https://blog.orzsiyuan.com/tag/%E6%9C%80%E5%B0%8F%E6%B5%81/)[匈牙利算法 \(https://blog.orzsiyuan.com/tag/%E5%8C%88%E7%89%99%E5%88%A9%E7%AE%97%E6%B3%95/\)](https://blog.orzsiyuan.com/tag/%E5%8C%88%E7%89%99%E5%88%A9%E7%AE%97%E6%B3%95/)[扫描线 \(https://blog.orzsiyuan.com/tag/%E6%89%AB%E6%8F%8F%E7%BA%BF/\)](https://blog.orzsiyuan.com/tag/%E6%89%AB%E6%8F%8F%E7%BA%BF/)[CEOI \(https://blog.orzsiyuan.com/tag/CEOI/\)](https://blog.orzsiyuan.com/tag/CEOI/)[长链剖分 \(https://blog.orzsiyuan.com/tag/%E9%95%BF%E9%93%BE%E5%89%96%E5%88%86/\)](https://blog.orzsiyuan.com/tag/%E9%95%BF%E9%93%BE%E5%89%96%E5%88%86/)[GXOI \(https://blog.orzsiyuan.com/tag/GXOI/\)](https://blog.orzsiyuan.com/tag/GXOI/)[GZOI \(https://blog.orzsiyuan.com/tag/GZOI/\)](https://blog.orzsiyuan.com/tag/GZOI/)[USACO \(https://blog.orzsiyuan.com/tag/USACO/\)](https://blog.orzsiyuan.com/tag/USACO/)[AC 自动机 \(https://blog.orzsiyuan.com/tag/AC-%E8%87%AA%E5%8A%A8%E6%9C%BA/\)](https://blog.orzsiyuan.com/tag/AC-%E8%87%AA%E5%8A%A8%E6%9C%BA/)[KMP \(https://blog.orzsiyuan.com/tag/KMP/\)](https://blog.orzsiyuan.com/tag/KMP/)[暴力 \(https://blog.orzsiyuan.com/tag/%E6%9A%B4%E5%8A%9B/\)](https://blog.orzsiyuan.com/tag/%E6%9A%B4%E5%8A%9B/)[CTSC \(https://blog.orzsiyuan.com/tag/CTSC/\)](https://blog.orzsiyuan.com/tag/CTSC/)[扩展欧拉定理 \(https://blog.orzsiyuan.com/tag/%E6%89%A9%E5%B1%95%E6%AC%A7%E6%8B%89%E5%AE%9A%E7%9](https://blog.orzsiyuan.com/tag/%E6%89%A9%E5%B1%95%E6%AC%A7%E6%8B%89%E5%AE%9A%E7%9)[牛顿迭代法 \(https://blog.orzsiyuan.com/tag/%E7%89%9B%E9%A1%BF%E8%BF%AD%E4%BB%A3%E6%B3%95/\)](https://blog.orzsiyuan.com/tag/%E7%89%9B%E9%A1%BF%E8%BF%AD%E4%BB%A3%E6%B3%95/)[泰勒公式 \(https://blog.orzsiyuan.com/tag/%E6%B3%B0%E5%8B%92%E5%85%AC%E5%BC%8F/\)](https://blog.orzsiyuan.com/tag/%E6%B3%B0%E5%8B%92%E5%85%AC%E5%BC%8F/)[多项式反三角函数 \(https://blog.orzsiyuan.com/tag/%E5%A4%9A%E9%A1%B9%E5%BC%8F%E5%8F%8D%E4%B8%89%E8](https://blog.orzsiyuan.com/tag/%E5%A4%9A%E9%A1%B9%E5%BC%8F%E5%8F%8D%E4%B8%89%E8)[背包 \(https://blog.orzsiyuan.com/tag/%E8%83%8C%E5%8C%85/\)](https://blog.orzsiyuan.com/tag/%E8%83%8C%E5%8C%85/)[区间 DP \(https://blog.orzsiyuan.com/tag/%E5%8C%BA%E9%97%B4-DP/\)](https://blog.orzsiyuan.com/tag/%E5%8C%BA%E9%97%B4-DP/)[HNOI \(https://blog.orzsiyuan.com/tag/HNOI/\)](https://blog.orzsiyuan.com/tag/HNOI/)[WC \(https://blog.orzsiyuan.com/tag/WC/\)](https://blog.orzsiyuan.com/tag/WC/)[鸽巢原理 \(https://blog.orzsiyuan.com/tag/%E9%B8%BD%E5%B7%A2%E5%8E%9F%E7%90%86/\)](https://blog.orzsiyuan.com/tag/%E9%B8%BD%E5%B7%A2%E5%8E%9F%E7%90%86/)[树链剖分 \(https://blog.orzsiyuan.com/tag/%E6%A0%91%E9%93%BE%E5%89%96%E5%88%86/\)](https://blog.orzsiyuan.com/tag/%E6%A0%91%E9%93%BE%E5%89%96%E5%88%86/)[第二类斯特林数 \(https://blog.orzsiyuan.com/tag/%E7%AC%AC%E4%BA%8C%E7%B1%BB%E6%96%AF%E7%89%B9%E6%](https://blog.orzsiyuan.com/tag/%E7%AC%AC%E4%BA%8C%E7%B1%BB%E6%96%AF%E7%89%B9%E6%)[二项式定理 \(https://blog.orzsiyuan.com/tag/%E4%BA%8C%E9%A1%B9%E5%BC%8F%E5%AE%9A%E7%90%86/\)](https://blog.orzsiyuan.com/tag/%E4%BA%8C%E9%A1%B9%E5%BC%8F%E5%AE%9A%E7%90%86/)

