

标签 GXOI 下的文章

🏠 首页 (<https://blog.orzsiyuan.com/>) / GXOI

「GXOI / GZOI 2019」与或和 (<https://blog.orzsiyuan.com/archives/GXOI-GZOI-2019-And-Or/>)

题目链接: LOJ 3083 (<https://loj.ac/problem/3083>)

Freda 学习了位运算和矩阵以后, 决定对这种简洁而优美的运算, 以及蕴含深邃空间的结构进行更加深入的研究。

对于一个由非负整数构成的矩阵, 她定义矩阵的 AND 值为矩阵中所有数二进制 AND(&) 的运算结果; 定义矩阵的 OR 值为矩阵中所有数二进制 OR(|) 的运算结果。

给定一个 $n \times n$ 的矩阵, 她希望求出:

1. 该矩阵的所有子矩阵的 AND 值之和 (所有子矩阵 AND 值相加的结果)。
2. 该矩阵的所有子矩阵的 OR 值之和 (所有子矩阵 OR 值相加的结果)。

接下来的剧情你应该已经猜到——Freda 并不想花费时间解决如此简单的问题, 所以这个问题就交给你了。

由于答案可能非常的大, 你只需要输出答案对 $10^9 + 7$ 取模后的结果。

数据范围: $1 \leq n \leq 10^3$, 矩阵中的自然数 $\leq 2^{31} - 1$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 04 月 28 日



热门文章

(<https://loj.2019游记.html>) (<https://blog.orzsiyuan.com/archives/ZJOI-2019/>)
2019/) 🕵 6051

(<https://loj.2019算法模板复习.html>) (<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-2019-Dance-Rap-and-Basketball/>)

Sing- ● 843

Dance-

Rap-

and-

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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



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- [多项式反三角函数 \(https://blog.orzsiyuan.com/tag/%E5%A4%9A%E9%A1%B9%E5%BC%8F%E5%8D%E4%B8%89%E8%8A%A8/\)](https://blog.orzsiyuan.com/tag/%E5%A4%9A%E9%A1%B9%E5%BC%8F%E5%8D%E4%B8%89%E8%8A%A8/)
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([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/>))

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([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/>))

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