

标签 线性基 下的文章

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

「WC 2011」最大 XOR 和路径 (<https://blog.orzsiyuan.com/archives/WC-2011-Maximum-Xor-Path/>)

题目链接: BZOJ 2115 (<https://www.lydsy.com/JudgeOnline/problem.php?id=2115>)

考虑一个包含 n 个点和 m 条边的无向连通图, 节点编号为 1 到 n , 第 i 条边的边权为非负整数 D_i 。试求出一条从 1 号节点到 n 号节点的路径, 使得路径上经过的边的全是 XOR 和最大。

路径可以重复经过某些点或边, 当一条边在路径中出现了多次时, 其权值在计算 XOR 和时也要被计算相应多的次数。

数据范围: $1 \leq n \leq 5 \times 10^4$, $1 \leq m \leq 10^5$, $0 \leq D_i \leq 10^{18}$ 。

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「2019 Multi-University Training Contest 1」Operation
(<https://blog.orzsiyuan.com/archives/2019-Multi-University-Training-Contest-1-Operation/>)

题目链接: HDU 6579 (<http://acm.hdu.edu.cn/showproblem.php?pid=6579>)

给定一个长度为 n 的序列 a , 接下来有 m 个操作, 操作分为如下 2 种:

- 0 $l\ r$: 选择 a_l, a_{l+1}, \dots, a_r 中的一些数, 使得他们的异或和最大, 输出最大的异或和。
- 1 x : 将 x 加入到序列的最后, 并且将 n 更新为 $n+1$ 。

操作强制在线, 我们设 $lastans$ 表示上一次操作 0 的答案, 初始值为 0。

对于所有操作 0, 令 $l = (l \text{ xor } lastans) \bmod n+1$, $r = (r \text{ xor } lastans) \bmod n+1$, 如果 $l > r$ 则交换两数。

对于所有操作 1, 令 $x = x \text{ xor } lastans$ 。

本题有 T 组数据。

数据范围: $1 \leq T \leq 10$, $1 \leq n, m \leq 5 \times 10^5$, $\sum n, \sum m \leq 10^6$, $0 \leq a_i, x < 2^{30}$ 。

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「算法笔记」线性基 (https://blog.orzsiyuan.com/archives/Linear-Base/)

✓ 线性基是一种特殊的基，它通常会在异或运算中出现。

👤 Siyuan (https://blog.orzsiyuan.com/author/1/) ⌚ 2019 年 01 月 26 日



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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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