

# 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的 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:  $1 \leq n \leq 5 \times 10^4$ ,  $1 \leq m \leq 10^5$ ,  $0 \leq D_i \leq 10^{18}$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 07 月 31 日

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

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 07 月 23 日

## 「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



### 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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