

标签 主席树 下的文章

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

「CodeChef GERALD07」Chef and Graph Queries
(<https://blog.orzsiyuan.com/archives/CodeChef-GERALD07-Chef-and-Graph-Queries/>)

题目链接: CodeChef GERALD07 (<https://www.codechef.com/problems/GERALD07>)

大厨有一个无向图 G 。顶点从 1 到 n 标号, 边从 1 到 m 标号。

大厨有 q 对询问 L_i, R_i 。对于每对询问, 大厨想知道当仅保留编号 X 满足 $L_i \leq X \leq R_i$ 所在的边时, 图 G 中有多少连通块。

注意数据可能包含自环和重边!

本题有 T 组数据。

数据范围: $1 \leq T \leq 10^3$, $1 \leq n, m, q \leq 2 \times 10^5$, $1 \leq L_i \leq R_i \leq M$, 所有的 n, m, q 的和均不超过 2×10^5 。

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「POI 2014」Couriers (<https://blog.orzsiyuan.com/archives/POI-2014-Couriers/>)

题目链接: LOJ 2432 (<https://loj.ac/problem/2432>)

给定长度为 n 的正整数序列 p_i 。有 m 组查询, 每次查询区间 $[a, b]$ 中出现次数严格大于一半的数。

数据范围: $1 \leq n, m \leq 5 \times 10^5$, $1 \leq p_i \leq n$ 。

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「SPOJ 10628」COT - Count on a Tree (<https://blog.orzsiyuan.com/archives/SPOJ-10628-COT/>)

题目链接: SPOJ 10628 (<https://www.spoj.com/problems/COT/>)

你有一棵 n 个节点的树，节点从 1 到 n 编号。每个点都有一个权值 a_i 。现在有 m 个询问，每个询问形如：

- $u\ v\ k$ ：求节点 u, v 之间的路径上的第 k 小权值。

数据范围： $1 \leq n, m \leq 10^5$ 。

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

「Codeforces 813E」 Army Creation
(<https://blog.orzsiyuan.com/archives/Codeforces-813E-Army-Creation/>)

题目链接：Codeforces 813E (<https://codeforces.com/contest/813/problem/E>)

Vova 非常喜欢玩电脑游戏，现在他正在玩一款叫做 Rage of Empires 的策略游戏。

在这个游戏里，Vova 可以雇佣 n 个不同的战士，第 i 个战士的类型为 a_i 。Vova 想要雇佣其中一些战士，从而建立一支平衡的军队。如果对于任何一种类型，军队中这种类型的战士都不超过 k ，那么这支军队就被称为平衡的。当然 Vova 想让这支军队的人数尽量多。

现在 Vova 有 q 个计划，第 i 个计划他只能雇佣区间 $[l_i, r_i]$ 之间的战士。对于每个计划，你需要求出可以组建的平衡军队的最多人数。

本题强制在线，对于给定的 l_i, r_i ，我们设上一个计划的答案为 $lastans$ （初始值为 0），实际的 l_i, r_i 通过如下方式生成：

1. $l_i \leftarrow ((l_i + lastans) \bmod n) + 1$ 。
2. $r_i \leftarrow ((r_i + lastans) \bmod n) + 1$ 。
3. 如果 $l_i > r_i$ ，交换 l_i 和 r_i 。

数据范围： $1 \leq n, k, q, a_i \leq 10^5$ 。

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「Luogu 2617」 Dynamic Rankings (<https://blog.orzsiyuan.com/archives/Luogu-2617-Dynamic-Rankings/>)

题目链接：Luogu 2617 (<https://www.luogu.org/problemnew/show/P2617>)

给定一个含有 n 个数的序列 a_i ，接下来有 m 个询问，询问分为以下 2 种：



- $Q\ i\ j\ k$ ：询问区间 $[i, j]$ 排序后的第 k 个数。
- $C\ i\ t$ ：将 a_i 修改为 t 。

数据范围： $1 \leq n, m \leq 10^5$, $0 \leq a_i \leq 10^9$ 。

 Siyuan (<https://blog.orzsiyuan.com/author/1/>)  2019 年 03 月 15 日


「算法笔记」可持久化线段树 (<https://blog.orzsiyuan.com/archives/Persistent-Segment-Tree/>)


✓ 线段树这种数据结构可以可持久化。所谓可持久化，就是可以访问某一个历史版本，我们需要运用不同版本之间的共同性质来降低复杂度。其中主席树是一种可持久化权值线段树，常用于求区间第 k 小值。

 Siyuan (<https://blog.orzsiyuan.com/author/1/>)  2019 年 01 月 02 日




热门文章

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