

标签 树套树 下的文章

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

[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



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(<https://blog.orzsiyuan.com/archives/Polynomial-Template/>) CSP-2019/ 算法笔记 多项式模板 (<https://blog.orzsiyuan.com/archives/Polynomial-Template/>) 👁 1080

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(<https://blog.orzsiyuan.com/archives/TJOI-2019-Sing-Dance-Rap-and-Basketball/>) TJOI-2019 唱歌、跳舞和篮球 (<https://blog.orzsiyuan.com/archives/TJOI-2019-Sing-Dance-Rap-and-Basketball/>) 👁 843

Rap-
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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/)

