

标签 LIS 下的文章

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

〔HDU 4742〕 Pinball Game 3D (<https://blog.orzsiyuan.com/archives/HDU-4742-Pinball-Game-3D/>)

题目链接: HDU 4742 (<http://acm.hdu.edu.cn/showproblem.php?pid=4742>)

RD 很擅长弹珠游戏。最近他发现了一种 3D 弹珠游戏，一共有 n 个球，每个球可以看作一个点。一开始 RD 扔出一个球使它击中另一个球，被击中的球会移动并可能击中另一个球，如此循环下去。但是一旦一个球击中了另一个球，它就会消失。

RD 可以控制每个球的移动方向，但是有一个限制：如果球 A 的坐标为 (x_1, y_1, z_1) ，球 B 的坐标为 (x_2, y_2, z_2) ，那么球 A 能击中球 B 当且仅当 $x_1 \leq x_2, y_1 \leq y_2, z_1 \leq z_2$ 。

现在，请你帮助 RD 求出可以击中的球的最大数量，以及可以击中这么多球的方案数，对 2^{30} 取模。两个方案中只要有一个球是不同的那么就认为他们不同。

本题有 T 组数据。

数据范围： $1 \leq T \leq 3, 1 \leq n \leq 10^5, 0 \leq x_i, y_i, z_i \leq 2^{30}$ 。

● Siyuan (<https://blog.orzsiyuan.com/author/1/>) ○ 2019 年 03 月 11 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

〔SDOI 2017〕 数字表格 (<https://blog.orzsiyuan.com/archives/SDOI-2017-Number-Table/>)

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Number(<https://blog.orzsiyuan.com/archives/TJOI-2019-Sing-Table/>) 2019-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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([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%8D%A2/) (<https://blog.orzsiyuan.com/tag/%E7%AC%AC%E4%BA%8C%E7%B1%BB%E6%96%AF%E7%89%B9%E6%8D%A2/>))

([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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