

# 标签 叉积 下的文章

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

「Codeforces 70D」 Professor's Task  
(<https://blog.orzsiyuan.com/archives/Codeforces-70D-Professor-Task/>)

题目链接: Codeforces 70D (<https://codeforces.com/contest/70/problem/D>)

你需要实现这样一个数据结构, 维护一个点集 S 的凸包。一共有 q 种操作, 操作分为如下 2 种:

1. 将一个坐标为  $(x, y)$  的点加入点集 S。点集 S 的凸包可能会改变, 也可能还是原来的样子。
2. 查询点  $(x, y)$  是否在凸包内部, 包括边界。

保证前 3 个操作都是加入操作, 且加入的 3 个点构成三角形。所有加入 S 的点的坐标都是不同的。

数据范围:  $4 \leq q \leq 10^5$ ,  $-10^6 \leq x, y \leq 10^6$ 。

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2019/ ⚡ 6051

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AK- ⚡ 2892

CSP-  
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2017- ⚡ 1026  
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Sing- 843  
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 Basketball/)

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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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