

# 标签 切比雪夫距离 下的文章

🏠 首页 (<https://blog.orzsiyuan.com/>) / 切比雪夫距离

## 「HDU 4456」 Crowd (<https://blog.orzsiyuan.com/archives/HDU-4456-Crowd/>)

题目链接: HDU 4456 (<http://acm.hdu.edu.cn/showproblem.php?pid=4456>)

F 市的地图是一个  $n \times n$  的网格, 对于每个交叉口, 我们为其定义一个人群密集度。最初, 每个交叉口的密集度为 0; 随着时间的推移, 密集度可能会变化。为了计算密集度, 警察局的管理人员提出了 “ $k$  维密集度” 的概念。交叉口  $(x_0, y_0)$  的 “ $k$  维密集度” 用  $c(x_0, y_0, k)$  表示, 可以用下式计算:

$$c(x_0, y_0, k) = \sum_{|x-x_0| + |y-y_0| \leq k} d(x, y)$$

其中  $d(x, y)$  为交叉口  $(x, y)$  的密集度。

此时一共有  $m$  个操作, 操作问题如下 2 个类型:

- 1  $x \ y \ z$  : 路口  $(x, y)$  的密集度  $d(x, y)$  增加了  $z$ 。
- 2  $x \ y \ z$  : 询问  $c(x, y, z)$  的值。

数据范围:  $1 \leq n \leq 10^4$ ,  $1 \leq m \leq 8 \times 10^4$ , 对于操作 1 有  $-100 \leq z \leq 100$ , 对于操作 2 有  $0 \leq z \leq 2n - 1$ 。

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2019- Dance-Rap-and-Basketball/)

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## 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

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