

## 标签 数学归纳法 下的文章

🏠 首页 (<https://blog.orzsiyuan.com/>) / 数学归纳法

「Codeforces 1186E」Vus the Cossack and a Field  
(<https://blog.orzsiyuan.com/archives/Codeforces-1186E-Vus-the-Cossack-and-a-Field/>)

题目链接: Codeforces 1186E (<https://codeforces.com/contest/1186/problem/E>)

Vus 有一个  $n \times m$  的 01 矩阵, 他通过如下方法构造了一个无限大的矩阵:

1. 计算出当前矩阵的反矩阵。即 0 变成 1, 1 变成 0。
2. 将当前矩阵放在左上角和右下角, 将反矩阵放在左下角和右上角。
3. 将得到的矩阵作为当前矩阵, 回到步骤 1 并不断重复。

我们将列从上到下标号为 1 到  $\infty$ , 将行从左到右标号为 1 到  $\infty$ 。接下来进行  $q$  次询问, 每次询问子矩阵  $(x_1, y_1, x_2, y_2)$  的元素之和。

数据范围:  $1 \leq n, m \leq 1000$ ,  $1 \leq q \leq 10^5$ ,  $1 \leq x_1 \leq x_2 \leq 10^9$ ,  $1 \leq y_1 \leq y_2 \leq 10^9$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) © 2019 年 06 月 29 日

「Codeforces 1148F」Foo Fighters  
(<https://blog.orzsiyuan.com/archives/Codeforces-1148F-Foo-Fighters/>)

题目链接: Codeforces 1148F (<https://codeforc.es/contest/1148/problem/F>)

你有  $n$  个物品, 每个物品有两个属性  $val_i$  和  $mask_i$ 。保证最初  $val_i$  的和非零。

你想要选择一个正整数  $s$  并将所有物品的  $val_i$  进行修改, 第  $i$  个物品的  $val_i$  通过如下方法修改:

- 将  $mask_i$  和  $s$  在二进制下考虑。
- 计算  $s \text{ AND } mask_i$  的值。
- 如果  $s \text{ AND } mask_i$  的值中有奇数个 1, 那么将  $val_i$  替换为  $-val_i$ ; 否则不进行修改。

你需要找到这样一个整数  $s$ , 使得所有物品  $val_i$  的和相对最初的和正负号相反 (不允许为 0)。但是和的绝对值可以是任意的。

数据范围:  $1 \leq n \leq 3 \times 10^5$ ,  $-10^9 \leq val_i \leq 10^9$ ,  $1 \leq mask_i, s < 2^{62}$ 。

## [ARC 103B] Robots Arms (<https://blog.orzsiyuan.com/archives/ARC-103B-Robots-Arms/>)

题目链接: ARC 103B ([https://atcoder.jp/contests/arc103/tasks/arc103\\_b](https://atcoder.jp/contests/arc103/tasks/arc103_b))

Snuke 正在向他的工厂介绍一款机械臂:

- 机械臂由  $m$  个部分和  $m + 1$  个关节组成, 关节标号为  $0$  到  $m$ 。第  $i$  个部分连着第  $i - 1$  和  $i$  个关节。第  $i$  个部分的长度为  $d_i$ 。
- 对于每个部分, 可以单独指定其动作。现在有 4 种模式: L、R、D 和 U。如果我么把工厂视为坐标平面, 那么关节  $i$  的位置将通过如下方法确定 (我么将它的坐标表示为  $(x_i, y_i)$ ) :
  - $(x_0, y_0) = (0, 0)$ 。
  - 如果第  $i$  个模式为 L, 那么  $(x_i, y_i) = (x_{i-1} - d_i, y_{i-1})$ 。
  - 如果第  $i$  个模式为 R, 那么  $(x_i, y_i) = (x_{i-1} + d_i, y_{i-1})$ 。
  - 如果第  $i$  个模式为 D, 那么  $(x_i, y_i) = (x_{i-1}, y_{i-1} - d_i)$ 。
  - 如果第  $i$  个模式为 U, 那么  $(x_i, y_i) = (x_{i-1}, y_{i-1} + d_i)$ 。

Snuke 想要引入一种机械臂, 以便通过正确的指定模式, 使得关节  $m$  可以到达所有的  $n$  个点  $(X_1, Y_1), (X_2, Y_2), \dots, (X_n, Y_n)$ 。请判断这是否可行。如果可行, 那么请你构造一个满足条件的机械臂, 并分别给出到达  $n$  个点的模式方案。

在你构造出的方案中, 必须满足  $1 \leq m \leq 40, 1 \leq d_i \leq 10^{12}$ 。

数据范围:  $1 \leq n \leq 1000, -10^9 \leq X_i, Y_i \leq 10^9$ 。



### 热门文章

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