

» 欢迎来到 Siyuan 的博客！希望我们能相互交流，共同进步 ~

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# Siyuan 的博客

你强归你强，我永不示弱。

置顶

CSP 2019 算法模板复习！ (<https://blog.orzsiyuan.com/archives/hehezhou-AK-CSP-2019/>)



我们是兄弟，我怎么会鸽你呢

● Siyuan (<https://blog.orzsiyuan.com/author/1/>) ○ 2019 年 09 月 22 日

## 有用的文章整理

(<https://blog.orzsiyuan.com/archives/%E5%A5%BD%E5%BA%B7%E7%9A%84/>)

以下文章不定期收集和更新，欢迎大家提供更多优秀文章！

● Siyuan (<https://blog.orzsiyuan.com/author/1/>) ○ 2019 年 11 月 04 日

## 「Codeforces 1228E」 Another Filling the Grid

(<https://blog.orzsiyuan.com/archives/Codeforces-1228E-Another-Filling-the-Grid/>)

题目链接: Codeforces 1228E (<https://codeforces.com/contest/1228/problem/E>)

你有一个  $n \times n$  的网格和一个整数  $k$ , 在每个格子中都填入一个整数, 满足如下条件:

- 所有格子中的整数都介于 1 到  $k$  之间。
- 第  $i$  行的最小值为 1 ( $1 \leq i \leq n$ ) 。
- 第  $j$  列的最小值为 1 ( $1 \leq j \leq n$ ) 。

请求出填数的方案数, 答案对  $10^9 + 7$  取模。

数据范围:  $1 \leq n \leq 250$ ,  $1 \leq k \leq 10^9$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⚒ 2019 年 10 月 01 日

「Codeforces 1217D」 Coloring Edges  
(<https://blog.orzsiyuan.com/archives/Codeforces-1217D-Coloring-Edges/>)

题目链接: Codeforces 1217D (<https://codeforces.com/contest/1217/problem/D>)

你有一个包含  $n$  个点和  $m$  条边的有向图 (没有自环或重边)。

定义一张图的  $k$  染色为: 将每条边染成  $k$  种颜色中的一种。一个  $k$  染色是好的当且仅当不存在一个环满足环上的所有边颜色相同。

你需要求出这张图的  $k$  染色, 并最小化  $k$  的值。

数据范围:  $2 \leq n \leq 5000$ ,  $1 \leq m \leq 5000$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⚒ 2019 年 09 月 14 日

「Codeforces 1204E」 Natasha, Sasha and the Prefix Sums  
(<https://blog.orzsiyuan.com/archives/Codeforces-1204E-Natasha-Sasha-and-the-Prefix-Sums/>)

题目链接: Codeforces 1204 (<https://codeforces.com/contest/1204/problem/E>)

Natasha 最喜欢的数字是  $n$  和 1, Sasha 最喜欢的数字是  $m$  和  $-1$ 。某一天他们写下了长度为  $n + m$  且包含恰好  $n$  个 1 和  $m$  个  $-1$  的所有可能的序列。对于每一个序列计算出它的最大前缀和 (允许为空); 形式化地, 我们定义  $f(a)$  表示序列  $a_1, \dots, a_l$  ( $l \leq 0$ ) 的最大前缀和, 那么有:

$$f(a) = \max \left( 0, \max_{i=1}^l \sum_{j=1}^i a_j \right)$$

现在他们想要对于所有满足条件的序列, 求出  $f(a)$  的总和。答案对 998244853 取模。

数据范围： $0 \leq n, m \leq 2000$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 09 月 08 日

## 「Codeforces 662C」 Binary Table (<https://blog.orzsiyuan.com/archives/Codeforces-662C-Binary-Table/>)

题目链接：Codeforces 662C (<https://codeforces.com/contest/662/problem/C>)

你有一个  $n \times m$  的表格。每个格子都有一个数字 0 或 1，你可以任意选择某一行或者某一列并将其翻转。请问通过任意次操作后表格中 1 的个数的最小值是多少？

数据范围： $1 \leq n \leq 20$ ,  $1 \leq m \leq 10^5$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 08 月 31 日

## 「TJOI / HEOI 2016」 求和 (<https://blog.orzsiyuan.com/archives/TJOI-HEOI-2016-Sum/>)

题目链接：LOJ 2058 (<https://loj.ac/problem/2058>)

在 2016 年，佳媛姐姐刚刚学习了第二类斯特林数，非常开心。

现在他想计算这样一个函数的值：

$$f(n) = \sum_{i=0}^n \sum_{j=0}^i S(i, j) \cdot 2^j \cdot j!$$

$S(i, j)$  表示第二类斯特林数，递推公式为： $S(i, j) = j \cdot S(i-1, j) + S(i-1, j-1)$ ,  $1 \leq j \leq i-1$ 。

边界条件为： $S(i, i) = 1 (i \geq 0)$ ,  $S(i, 0) = 0 (i \geq 1)$ 。

你能帮帮她吗？

数据范围： $1 \leq n \leq 10^5$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 08 月 31 日

## 「Codeforces 1174F」 Ehab and the Big Finale (<https://blog.orzsiyuan.com/archives/Codeforces-1174F-Ehab-and-the-Big-Finale/>)

题目链接：Codeforces 1174F (<https://codeforces.com/problemset/problem/1174/F>)

这是一道交互题。

给定一棵有  $n$  个点的树，节点 1 为根节点。

我们选择一个隐藏节点  $x$ ，你需要进行以下三种操作来找到这个节点  $x$  的编号。

- $d u$ ：你会得到节点  $u$  和  $x$  之间的距离。两个节点之间的距离定义为最短路径上的边数。
- $s u$ ：你会得到节点  $u$  到  $x$  的最短路径上的第二个节点。但是如果  $u$  不是  $x$  的祖先，你会直接得到 Wrong answer 的结果！
- $! u$ ：回答隐藏节点  $x$  的编号为  $u$ 。

你需要在 36 次询问（不包括回答）内找到  $x$  的编号。这个隐藏节点  $x$  不会根据你的询问而改变。

**数据范围：**  $2 \leq n \leq 2 \times 10^5$ 。

● Siyuan (<https://blog.orzsiyuan.com/author/1/>) ○ 2019 年 08 月 07 日

「Codeforces 1189F」 Array Beauty  
(<https://blog.orzsiyuan.com/archives/Codeforces-1189F-Array-Beauty/>)

题目链接：Codeforces 1189F (<https://codeforces.com/contest/1189/problem/F>)

我们定义一个序列  $b_1, b_2, \dots, b_n (n > 1)$  的「美丽值」为  $\min_{1 \leq i < j \leq n} |b_i - b_j|$ 。

我们给定一个序列  $a_1, a_2, \dots, a_n$  个一个数字  $k$ 。请计算出所有长度恰好为  $k$  的子序列的「美丽值」之和，答案对 998244353 取模。

**数据范围：**  $2 \leq k \leq n \leq 1000, 0 \leq a_i \leq 10^5$ 。

● Siyuan (<https://blog.orzsiyuan.com/author/1/>) ○ 2019 年 08 月 05 日

「Codeforces 1189D2」 Add on a Tree: Revolution  
(<https://blog.orzsiyuan.com/archives/Codeforces-1189D2-Add-on-a-Tree-Revolution/>)

题目链接：Codeforces 1189D2 (<https://codeforces.com/contest/1189/problem/D2>)

你有一个棵  $n$  个点的树，初始所有的边上的数字都是 0。对于每次操作，你可以选择两个不同的叶子节点  $u, v$  和一个任意整数  $x$  并把  $u - v$  这条简单路径上的边加上  $x$ 。

每条边都有一个目标状态，用一个两两不同的非负偶数表示。你需要判断这个目标状态是否可以通过有限次操作达到。如果可行则输出 YES 和构造的方案；否则输出 NO。

注意叶子节点的定义为度数为 1 的点。

**数据范围：**  $2 \leq n \leq 10^5$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 08 月 05 日

## 「Codeforces 1189D1」 Add on a Tree

(<https://blog.orzsiyuan.com/archives/Codeforces-1189D1-Add-on-a-Tree/>)

题目链接: Codeforces 1189D1 (<https://codeforces.com/contest/1189/problem/D1>)

你有一个棵  $n$  个点的树，初始所有的边上的数字都是 0。对于每次操作，你可以选择两个不同的叶子节点  $u, v$  和一个任意实数  $x$  并把  $u - v$  这条简单路径上的边加上  $x$ 。

我们令  $w_i$  表示最终第  $i$  条边上的实数，是否对于所有的  $w_i \in \mathbb{R}, 1 \leq i < n$ , 都存在有限的操作使得所有的边都满足条件？如果可行则输出 YES 否则输出 NO。

注意叶子节点的定义为度数为 1 的点。

**数据范围：**  $2 \leq n \leq 10^5$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 08 月 05 日

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## 热门文章

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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

## 标签云



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