

标签 组合数学 下的文章

🏠 首页 (<https://blog.orzsiyuan.com/>) / 组合数学

「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

「SPOJ 16607」 IE1 - Sweets (<https://blog.orzsiyuan.com/archives/SPOJ-16607-IE1-Sweets/>)

题目链接: SPOJ 16607 (<https://www.spoj.com/problems/IE1/>)

John 有 n 个水果罐子, 每个罐子都装有不同种类的糖果, 第 i 个罐子里有 m_i 个糖果。John 决定吃一些糖果, 并且打算至少吃 a 个, 至多吃 b 个, 求一共有多少种吃法。答案对 2004 取模。

数据范围: $1 \leq n \leq 10$, $0 \leq a \leq b \leq 10^7$, $0 \leq m_i \leq 10^7$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 07 月 06 日

「ARC 102C」 Stop. Otherwise... (<https://blog.orzsiyuan.com/archives/ARC-102C-Stop-Otherwise/>)

题目链接: ARC 102C (https://atcoder.jp/contests/arc102/tasks/arc102_c)

Takahashi 有 n 个骰子，每个骰子有 k 个面分别标号为 1 到 k 。对于每个 $i = 2, 3, \dots, 2k$ ，求满足以下条件的方案数对 998244353 的值。

- 投掷这 n 个骰子，没有任何两个不同骰子的数字之和为 i 。

注意骰子之间是相同的。也就是说，当存在整数 k 使得两个方案数数字 k 的骰子数量不同，那么这两个方案被认为是不同的。

数据范围: $2 \leq n \leq 2000$, $1 \leq k \leq 2000$ 。

● Siyuan (<https://blog.orzsiyuan.com/author/1/>) ○ 2019 年 04 月 17 日

「Codeforces 1113F」 Sasha and Interesting Fact from Graph Theory (<https://blog.orzsiyuan.com/archives/Codeforces-1113F-Sasha-and-Interesting-Fact-from-Graph-Theory/>)

题目链接: Codeforces 1113F (<https://codeforces.com/contest/1113/problem/F>)

在本题中，树是一个加权连通图，由 n 个节点和 $n - 1$ 条边组成，边的权值为 1 到 m 的整数。一棵树是美丽的，当且仅当对于给定的节点 a 和 b ，他们的距离恰好为 m 。

请你求出有多少棵树是美丽的，答案对 $10^9 + 7$ 取模。两棵树是不同的，当且仅当一棵树上有一条边，而另一棵树上没有这条边。

数据范围: $2 \leq n \leq 10^6$, $1 \leq m \leq 10^6$, $1 \leq a, b \leq n$, $a \neq b$ 。

● Siyuan (<https://blog.orzsiyuan.com/author/1/>) ○ 2019 年 03 月 06 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-
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Template/) 1080

(https://blog.orzsiyuan.com/archives/SDOI-2017-Number-Table/)
2017- 1026

Number-
Table/) (https://blog.orzsiyuan.com/archives/TJOI-2019-Sing-
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

标签云



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