标签 单调栈 下的文章

「Codeforces 1156E」Special Segments of Permutation (https://blog.orzsiyuan.com/archives/Codeforces-1156E-Special-Segments-of-Permutation/)

> 题目链接：Codeforces 1156E (https://codeforces.com/contest/1156/problem/E)

你有一个长度为 n 的排列 p，假如 $p_l + p_r = \max_{i=l}^{r} p_i$，那么我们称子段 $p[l, r]$ 是特殊的。请你找出特殊的子段数量。

数据范围：$3 \leq n \leq 2 \times 10^5$。

Siyuan (https://blog.orzsiyuan.com/author/1/) 2019 年 05 月 20 日

「GXOI / GZOI 2019」与或和 (https://blog.orzsiyuan.com/archives/GXOI-GZOI-2019-And-Or/)

> 题目链接：LOJ 3083 (https://loj.ac/problem/3083)

Freda 学习了位运算和矩阵以后，决定对这种简洁而优美的运算，以及蕴含深邃空间的结构进行更加深入的研究。

对于一个由非负整数构成的矩阵，她定义矩阵的 AND 值为矩阵中所有数二进制 AND(&) 的运算结果；定义矩阵的 OR 值为矩阵中所有数二进制 OR(|) 的运算结果。

给定一个 $n \times n$ 的矩阵，她希望求出：

1. 该矩阵的所有子矩阵的 AND 值之和（所有子矩阵 AND 值相加的结果）。
2. 该矩阵的所有子矩阵的 OR 值之和（所有子矩阵 OR 值相加的结果）。

接下来的剧情你应该已经猜到——Freda 并不想花费时间解决如此简单的问题，所以这个问题就交给你了。

由于答案可能非常的大，你只需要输出答案对 $10^9 + 7$ 取模后的结果。

数据范围：$1 \leq n \leq 10^3$，矩阵中的自然数 $\leq 2^{31} - 1$。

Siyuan (https://blog.orzsiyuan.com/author/1/) 2019 年 04 月 28 日

「POJ 3415」Common Substrings (https://blog.orzsiyuan.com/archives/POJ-3415-Common-Substrings/)

> 题目链接：POJ 3415 (http://poj.org/problem?id=3415)

字符串 T 的子串定义为：

$$T(i,k)=T_iT_{i+1}\cdots T_{t+k-1},1\le i\le i+k-1\le |T|$$

给定两个字符串 A,B 和一个整数 K，我们定义 S 为三元组 (i,j,k) 集合：

$$S=\{(i,j,k)\mid k\ge K,A(i,k)=B(j,k)\}$$

你需要求出集合 S 的大小 $|S|$。

数据范围：$1\le |A|,|B|\le 10^5$，$1\le K\le \min(|A|,|B|)$。

Siyuan (https://blog.orzsiyuan.com/author/1/) 2019 年 04 月 13 日

「AHOI 2013」差异 (https://blog.orzsiyuan.com/archives/AHOI-2013-Difference/)

> 题目链接：LOJ 2377 (https://loj.ac/problem/2377)

给定一个长度为 n 的字符串 S，令 T_i 表示它从第 i 个字符开始的后缀，求：

$$\sum_{1\le i<j\le n}\text{len}(T_i)+\text{len}(T_j)-2\times\text{lcp}(T_i,T_j)$$

其中，$\text{len}(a)$ 表示字符串 a 的长度，$\text{lcp}(a,b)$ 表示字符串 a 和字符串 b 的最长公共前缀。

数据范围：$2\le n\le 5\times 10^5$。

Siyuan (https://blog.orzsiyuan.com/author/1/) 2019 年 04 月 13 日

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