

标签 单调队列 下的文章

🏠 首页 (<https://blog.orzsiyuan.com/>) / 单调队列

「CTSC 2012」熟悉的文章 (<https://blog.orzsiyuan.com/archives/CTSC-2012-Familiar-Article/>)

题目链接: Luogu 4022 (<https://www.luogu.org/problemnew/show/P4022>)

阿米巴是小强的好朋友。

在小强眼中, 阿米巴是一个作文成绩很高的文艺青年。为了获取考试作文的真谛, 小强向阿米巴求教。阿米巴给小强展示了几篇作文, 小强觉得这些文章怎么看怎么觉得熟悉, 仿佛是某些范文拼拼凑凑而成的。小强不禁向阿米巴投去了疑惑的眼光, 却发现阿米巴露出了一个狡黠的微笑。

为了有说服力地向阿米巴展示阿米巴的作文是多么让人觉得眼熟, 小强想出了一个评定作文「熟悉程度」的量化指标: L_0 。小强首先将作文转化成一个 01 串。之后, 小强搜集了各路名家的文章, 同样分别转化成 01 串后, 整理出一个包含了 m 个 01 串的标准作文库。

小强认为: 如果一个 01 串长度不少于 L 且在标准作文库中的某个串里出现过 (即它是标准作文库的某个串的一个连续子串), 那么它是「熟悉」的。对于一篇作文 A , 如果能够把 A 分割成若干段子串, 其中「熟悉」的子串的长度总和不少于 A 总长度的 90%, 那么称 A 是「熟悉的文章」。 L_0 是能够让 A 成为「熟悉的文章」的所有 L 的最大值。如果不存在这样的 L , 那么规定 $L_0 = 0$ 。

现在小强有 n 篇作文需要进行判断, 请你分别求出他们的 L_0 值。

数据范围: 输入文件的长度不超过 1.1×10^6 字节。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) © 2019 年 05 月 19 日

「HAOI 2007」修筑绿化带 (<https://blog.orzsiyuan.com/archives/HAOI-2007-Build-Green-Belt/>)

题目链接: Luogu 2219 (<https://www.luogu.org/problemnew/show/P2219>)


为了增添公园的景致, 现在需要在公园中修筑一个花坛, 同时在画坛四周修建一片绿化带, 让花坛被绿化带围起来。


如果把公园看成一个 $M \times N$ 的矩形, 那么花坛可以看成一个 $C \times D$ 的矩形, 绿化带和花坛一起可以看成一个 $A \times B$ 的矩形。

如果将花园中的每一块土地的“肥沃度”定义为该块土地上每一个小块肥沃度 $X_{i,j}$ 之和，那么，绿化带的肥沃度 = $A \times B$ 块的肥沃度 - $C \times D$ 块的肥沃度。

为了使得绿化带的生长得旺盛，我们希望绿化带的肥沃度最大。

数据范围： $1 \leq M, N \leq 1000, 1 \leq A \leq M, 1 \leq B \leq N, 1 \leq C \leq A - 2, 1 \leq D \leq B - 2, 1 \leq X_{i,j} \leq 100$ 。

 Siyuan (<https://blog.orzsiyuan.com/author/1/>)





 2019 年 03 月 21 日



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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