liouzhou_101's blog

Editorial of Codeforces Round #700

By liouzhou_101, history, 102 minutes ago,

1480A - Yet Another String Game

Tutorial

1480B - The Great Hero

Tutorial

1479A - Searching Local Minimum

Tutorial

[problem:1479A]

We maintain by binary search a range $[l, r]$ which has a local minimum. Moreover, we assume that $a_{l-1} > a_l$ and $a_r < a_{r+1}$. Initially, $[l, r] = [1, n]$.

In each iteration, let m be the midpoint of l and r.

Case 1. If $a_m < a_{m+1}$, then the range becomes $[l, m]$.

Case 2. If $a_m > a_{m+1}$, then the range becomes $[m + 1, r]$.

When $l = r$, we have found a local minimum a_l.

The number of queries to a_i is at most $2\lceil \log_2 n \rceil \leq 34 < 100$.

1479B1 - Painting the Array I

Tutorial

1479B2 - Painting the Array II

Tutorial

1479C - Continuous City

Tutorial

1479D - Odd Mineral Resource

Tutorial

1479E - School Clubs

Tutorial

Tutorial of Codeforces Round #700 (Div. 1)

#tutorial

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