

Programación Competitiva

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Q1. MinAvgTwoSlice

- ▶ https://app.codility.com/programmers/lessons/5-prefix_sums/min_avg_two_slice/
- ▶ Find the minimal average of any slice containing at least two elements.

Q2. GenomicRangeQuery

- ▶ https://app.codility.com/programmers/lessons/5-prefix_sums/genomic_range_query/
- ▶ Find the minimal nucleotide from a range of sequence DNA.

Q3. Maximum Subarray Sum II

- ▶ <https://cses.fi/problemset/task/1644>
- ▶ Find the maximum sum of values in a contiguous subarray with length between a and b

Q4. Nearest Smaller Values

- ▶ <https://cses.fi/problemset/task/1645>
- ▶ Find for each array position the nearest position to its left having a smaller value

Q5. Dynamic Range Sum Queries

► <https://cses.fi/problemset/task/1648>

Process q queries of the following types:

update the value at position k to u

what is the sum of values in range $[a,b]$?

Q6. Palindrome Queries

► <https://cses.fi/problemset/task/2420>

Process m operations of the following types:

Change the character at position k to x

Check if the substring from position a to position b is a palindrome

Q7. Reversals and Sums

► <https://cses.fi/problemset/task/2074>

Process the following operations:

reverse a subarray

calculate the sum of values in a subarray

Q8. ADAPLANT - Ada and Plants

- ▶ <https://www.spoj.com/problems/ADAPLANT/>

Q9. ADASQR - Ada and Squares

► <https://www.spoj.com/problems/ADASQR/>

Q10. CODFURY - Megatron and his rage

► <https://www.spoj.com/problems/CODFURY/>