

Some Problem Solving Techniques

Two Pointers

Sliding Window

Prefix sum

Difference Array

Two Pointers

২ টা পয়েন্টের হিসাব-নিকাশ ।

Palindrome or Not

Two Pointers

২ টা পয়েন্টের হিসাব-নিকাশ।

$$O(N^2) \rightarrow O(N)$$

<https://cses.fi/problemset/task/1640>

Two Pointers + Sliding Window

২ টা পয়েন্টের মাঝখানের হিসাব-নিকাশ।

$O(N^3) \rightarrow O(N)$ or $O(N \log n)$

<https://cses.fi/problemset/task/3420>

<https://cses.fi/problemset/task/1141>

Two Pointers + Sliding Window

২ টা পয়েন্টের মাঝখানের হিসাব-নিকাশ।

$O(N^3) \rightarrow O(N)$ or $O(N \log n)$

<https://cses.fi/problemset/task/2428>

Prefix Sum

Pre-Calculation

$O(N) \rightarrow O(1)$

<https://cses.fi/problemset/task/1646>

Prefix Sum

Invertible Operation



Addition(+) \rightarrow Subtraction(-)
Multiplication(*) \rightarrow Division(/)
Xor(^) \rightarrow Xor(^)



GCD/LCM
Min/Max
AND/OR

Prefix Sum

Prefix Sum makes two pointers powerful

<https://cses.fi/problemset/task/1661/>

Prefix Sum

Conversion to Prefix Sum

Problem - 313B

Codeforces. Programming competitions and contests, programming community

 Codeforces

Difference Array

Opposite use case of prefix sum
Different Point of View

Problem - 295A

Codeforces. Programming competitions and contests, programming community

 Codeforces

Difference Array

Opposite use case of prefix sum
Different Point of View

Problem - 816B

Codeforces. Programming competitions and contests, programming community

 Codeforces