Two Pointers

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Two Pointers

The two pointers algorithm is typically used for finding solutions in pairs using "two pointers".

Each variable moves in a single direction, and they only traverse the array a single time.

Therefore, time complexity will be O(N+M) where N and M are the time complexities for the two variables.

Sometimes, two pointers is able to replace binary search, reducing the time complexity and making the implementation easier.

https://codeforces.com/edu/course/2/lesson/9

Two Pointers Problems

- Reversing an array/string
- Checking if string is a palindrome
- Merging two sorted arrays
- Find i, j such that $A_i + B_j = X$ where A and B are sorted.
- https://cses.fi/problemset/task/1641
- https://leetcode.com/problems/shortest-subarray-to-be-removed-to-make-array-sorted/description/

Feedback Form:

https://forms.gle/JAKfgh3iwm58KkPA7