4 Jun

You're solverig the classee 4 lam problem, which is a material estension of I lum and 3 lum. The key ille is to:

· Fix the first too numbers in nested loops

Use two pointers to find the remaining two numbers.

Avoid duplecater corefully at every level.

Strategy: fost + Tred Pointers + / Duplicate Skipping:

Inplicate thepping: \
1. Sort nums to help ship despectes and ux two pointers efficiently

2. Logs with index i from 0 to n-4: Their deplicates for i. 3. Logs with index i from i+1 to n-3: Their deeplicates for j.

4. Use two pointers left = j+1, right = n-1.

· Calculate the sum.

If it motelies the target - store it and move both pointers, skypsing duplicates.

If less than target - more left ++

If greater than target - move right --

[Time Complexity: [Outer loops: O(12)

· Two pointers inside: O(n)

Vstal: O(u3)

Efficient for n = 100

Ledge Cases: T. Retean only unique queduplets.

- Handle insert like [2,2,2,2] confully.

Don't access out = of - bounds in the loops.