10:22/4/026

Task 1 & dost

In this code, wied nested loop to compane all possible pains of numbers, nexulting in a time complexity of O(n). It checks for point of numbers that sun up to the terined sufput and

Great the loop it a valid pain in found.

(b) (b) efficiently search

I used two pointin approach to efficiently search for a pain of number in the list that sum up the Hanget value (val). The pointer traverse tint only once, which has the O(N) Complexity.

115:22/11/25 Task 2 It needs two list of integens and using (+) I manged them into one. An I used défault Sort tuchtion which given o(nlogn). (b) to pointens i and i to iterate when we can be the menging process the menging process that we complexity of O(N). nce things has one comparity.

Tank 3

The main pant of the code nontr a Cirt of tasks by their end fines and then iterates through the sorted list to find the maximum number of non-overlap. Here for the non-ting in o (n log(n))

Here, Just like task 3, I solved the task by

sorting the list of tasks by them start time and

sorting the list of tasks by them start time and

efficiently assigning them to m people while tracking

completed task. It has a time (complexity of O(N/og (N)))