Task 1/9) (1-)(1-)(1-)

Here we need to find the index to calculate a tentative sum. We built a function and exentually check if sum of two elements is equals to tetative sym. Then, return the value in a list. Otherwise, we write impossible.

Tack 16

Here we can can use two pointers to avoid inner looping System. As the array is already sorted, to find the tentative sum we start one pointer from begining of the the array and another one from the end of it. We modify the iterators according to temorarily adding two pointer's values. It If two sum temorary sum is eauals to tentative sum then we

return those it indecies . Otherwise, if the it two iterator becomes equals to each other or start becomes bigger than end, we terminte the loop and say Impossible as output

Pask 2a E-X 20)

Here we need to sort a merged array in an mlogn time complexity. So we simply merge the two array and user sould to find sour result. I was pribases find some result.

parid Draft ack 20 hour

We initiate two pointers for both of the arrays and another one a for the merged array. We chang compare the data with the iterators and change them accordingly, we insert those values after that in the empty array. Here (P. T. D)

we are doing everything in one loop. so de fine le complexity becomes

O(n).

O(n).

O(n).

O(n). Task-3 AS NEW Finstly, we sort afforther tasks Russ polised using the end hour of every task of in ascending order. We store a current pain from the task list, compare lift the current paidres to basit and hour by its enlesser or equals outo station of If it is, we stone the tasks and posters increase our count. Jine rol parro and change them accordingly, we insert those values after mat in the empty array. Here

Scanned with CamScanner

Task-9

Firstly, we sort all the tasks in ascending order according to the end time of all task. Then, we initialize an array all the individual having their own task slot. Here we can not assign random tasks for all the individuals, we need to calculate the maximum One. To make. a proper current pair array; Then we compare all the start time of list tasks with current pair's end hour. Eventually we get our maximum output.