Lab-02

Task 1 (1) time complex= 0(n~)

Open input file then read the line and take

len of annuy and tanget sum. Here to solve this

problem I use two torn loop. first loop take a

int. value from armay and second loop add with rext

value and compane with tanget sum. if tanget sum ==

add value, I return the number of adding value.

Task 2 (2) time com; > O(n)

I use two pointer method and one its iterate trom direct (i) other is from last (j). However in them add those two value. If the topulue is greaten them target sum i itarate from last cause there I tind smaller value. Same son when i great snumer value than target usume, iterate from this if.

add both Elevery in the souther on a

Task ? (1)

Shaply add two list together then

mage and renge

Whe about () a function. Thistly separate two list trom

input file then add them together. Then the list is devided

by divide and conquer policy as use recursion to divide this

fist, basis of ten(1st) //2 = mid = From menysont() I call mange

tunction their i compare element and add the element in the roulf #st.

start and and appeared in the start

Hence i use marge send technic. where
i use two pointers method for two
list. It then compare the value of
two list. which value is smaller add in
the sortlistes and increase the value of
pointer. if both efist value is earl then
add both element in the sont 1st. and
increase the value of both pointer.

task 3 take stant and end list. The task schedule is sonted by end time. At the time of sontation, sepante the value of stant and end and append in the stant and end list. Pake a variable name cannel assinged with o. Then theek the stant time if stant time is equal on graten than connect then increase a count and add the task in the task list. Then I update the current with that

Task-4 From input sperate the task number and penson number. Here i use greed algorithm tracke a list of person and assinged with o. sorted the task lisk by their end time to (ascending). I same as task 3]. Then i tuse greedy algorithm. every time in the doop i sont (grevense sond) the penson dist where assigned with the person's task end fine) Then travas the task (stant) list and compare with penson's earld time and fask's stand time. if matches the condition increase a count and break the inner loop.

Task 2 (1);

menge Sont () \longrightarrow O (logn)

menge () \longrightarrow O (n logn)

menge () 1