Enplanation

Lale-02

1. O(n2) means me can use 2 loops to solve the problem. According to the Instruction, & use 2 for loop, 1 is outer loop and mother les 9 nner loop. I initialize a variable flag assigning the value False. This flag variable controls my inner loop. If flag is flow false then I execute my Ponner loop and write necessary output in output file otherwise I break the loop. After executing more loop, of of get a false in flog, then & write IM IMPOSSIBLE en output file as instructed:

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For O(n), & use I for loop which eg executes for N-1 times and when et meets flag = True, It loveable the loop. After that, of flag remains false of will write IMPOSSIBLE en output file.

1. For O(ndogn) & use merge sort. Before using merge sort, & adol genen two lests from Alice and Bole. Then & do sort the merge list using merge sort and write the output.

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For O(n) I use I for loop which will execute for (NHM) times. I use 2 pointer for 2 lists. In for loop of compare the same index elements of two lists and then append them to

a new list according to ascending order: After the loop of check the lists for any element remaining. Then write on the sorted list in outpet file.

Tarb-03:

Herst I store all tasks In a single list in list of lests format. After that I soit them by using bubble sort accor leased on their endline. Then I calculate the maximum tasks. & intialize count variable with intial value 1. and tasks variable with the value sorted list [0] which means the first task. Then & count the tasks which has a larger start time than the end time of premiously done task. After calculation of write the total count of tasks of mer can do and which tasks are them In the output file.

Firstly & sort the list of tasks as same as task-03. But for O(ndogn) I sort the list of tasks by merge-sort. After sorting I took 2 lists and counter Variable named count = 1. Among 2 dests, I list is empty and another has value of first task. Then a calculate the maximum tasks ley comparing the tasks which has equal or larger start time than the end time of any work done previously vor which have equal start time and greater end time than perevious task. After counting & urite the output of total number of tasks can be completed in the output