Lab Assignment 2 (Explaination)

All input/output files once taken from drive in an iterative way so that we can test all the in Put Coutent Bles and of governon duction of the contract

- Tossel: @ There are just 2100ps, iterating throughout the whole array & checking the sum = = n; and setusning the values who must that Sequisiment. As these was 2100ps; so O(n).
 - As the morny is societ; we can to averse it with one loop with given some conditions. IT'Il look like a two Pointer Problem but tonversing with 1 loop; so, 06).

- of in Olalian) Ame and H. @ Here in Problem(0); the arrays were just added initially and then soof U built in Function was called. So the total time complexity Leke = an + an + o (nlogn) = D(nlogn)
 - (b) By vering the pointers, we can traverse the whole arrays with one loop and that gives us O(m).

Task 8: First of all, the 2D array is being Sovoted using Python built in Sosted () Function which according to the 2nd element of the elements of the 2D array subjects will take O (glogn) time. And then amother loop is used to traverse throughout the assay to find the tasks which will take O(0) times. The total time complexity here z O (nlogn) + O (nlogn):

Tosk 4! As task 3; we sosted the given array in O(nlogn) time and there are 2 tooks altosether will take O(n') time. So the whole time complexity = O(n') of O(nlogn) = O(n')