

Date: / /

Task → 1

First, I made a list with the start and ending time and sorted the list based on ending time. Then checked whether $\text{start} \geq \text{ending}$, if yes then appended the tuple and updated the value of end time which is start and did the until until the list is empty.

Task → 2

Here also I sorted the list based on the ending time. Then used `max()`. I made a list which tracks the end times of the persons and if 1 task is assigned to one person then I broke the loop. and every step I checked $\text{start time} \geq \text{end time}$.

Task → 3

First made list where two people in tuple. Then I made a size list which will give me the size of a friend circle then I used `find()` to find parent. After calculating new size, updated it

and printed it.

$001 \rightarrow [100] = 10$

$(11) \rightarrow 11$

$\rightarrow 11 \rightarrow 11 \rightarrow 11$