Topics to se con pured 200 2011 9 10. 110 11 1D:19201089 bus mendalib faced affection sing of Section: 9

Task 14 th most factor that of a 10 with reporter Here first we insert all the tasks into a list and then sort them based on ascending order of ending time. Then we iturate through this list. If the list is empty the first task will be added to a separate list called 'p' Drice this is done, the next task will be judged in this way: - différence = current task's starting time - previous tasks ending time. If difference is positive, the task is added to p'list. This check is done to ensure that the tasks don't clash with one another.

Dask 2 powers out different in moons that We get the number of people, po from the input file. So, we create p promber of empty lists inside a larger list called tasks the total. The tasks are inside a list tasks and sorted based on their ending times. Now, we iterate ones the tasks. The very first task is sent to the first empty list in total. The other tasks check if the inner lists are not empty iteratively. The difference is calculated in like took 1 If the list is empts, the difference is set to a negative number as it is not going to be used. The goal is to find the most optimal person to give the tark to so that the difference is the least but non-negative. so, we have amother array called apper pos where we insert the pair (person, difference) to keep track of who has the most

we find the pair with the least difference and assign the took to that person/inner list. However, if not positive difference exists (clashes everywhere); if there is an empty array, the tank will be sent there. We are also keeping count of how many tanks are being arrighted. Posis Yeset at the end of each loop.

## Jask 3

We have a getParent function that recursively finds the parent of all nodes. Initially, the parent of each node is themselves. We iterate through energy connection and first get both node's parents. It their parents are different, it means they aren't friends. so, we set, the parent of node 1 to the parent of node 2 and also node 2. We have also hept a list for friends of all nodes. so, friends of parent 1 will be incremented by friends of parent? The output is parent 1's friends at every step.