1) a) Function dister (Arrimon) -> Find mon of current, and before current then some the new array the For 7-1 stop in enumerate (stops) -> Tical when retiral map of ArrCiJ = mox (dict Stops Val Cstop .] + Arr Ei-1.], ArrCiJ) IF. Ar Cillmon -mon = ArrCi) return_mox Time complexity: T(n)= T(n)+1 -> T(n)=O(n) Sporo complexity? O(n) - temporors orrote

1) b) in homework 3 time complexity is $\theta(n^3)$ of this grestion I made up it using loop and here the time complexity is $\theta(n)$ so there is big difference between two of them,

2) Fraction condy For i ronge (1, n+1) -> Trin) 1-=100- AOM For jin ronge(i) -> Tzkn) mon-ud = mox (mox-ud, orr Cj]. + Ard [i-j-1]) Agrici3 = nox- 40/ return Arrien] tire complexity of T(n) = Trentation +1 = Tin) = Am) + Den)+1 T(1) = Q(12)/1 Spore Complexity: Dull + Temporary Array

3) who I see the question renopsed probables come to my mind I implement the algorithm using greedy algorithm. I colomboded the iten with the heighest rotio and odd then intil we can't odd the rest iten os owhole ond of the end odd the rost item os much Thre complexity: Ten)= [1(n)+ [2m)+1 Sort For Algerithm 100p Tin- Ocaloga) + Oca) +1 Trai = Ocaloga)/

4) Function more Meeting

For ir ronge (11, 1)

IF (1Ei3. stat. > time - limit)

ons. oppord (1ci3. pos.)

Fin-limit = |Ei3. and

for i in .ons:

print():

T(n) = T(n) + Tzm) + Tzm)

Sort

Algorith

T(n) = O(nlagn) + O(n) + O(n)

T(n) = O(hlagn),

let the gim set of octivities be S = S1.2.7...18 and octivities one sorted finish time. The Algorithm of growdy alongs pick outlints 1. Then there is a solution. A of the some size with activity 1 os the first activity.