#CSE 321 Honework 5

Question 1:

I have three loops for the my algorithm:

First loop complexity => #cities

Second loop complexity => #months # #cities # #cities

third loop complexity => # months # #cities # #cities

So if I say months is mount, cities is a count my algorithm

Complexity will be T(n) & O(mc2)

My Algorithm => I make a dotable and fill the with suitable numbers.

Then I used the table for the result, I used he parameters. They are

cities number, menth number, operation (s) + (the table given to us) and

relocation (ast (I made the list using the Shuttling cost (I gove the values

according to data).

Question 2:

Justite 3 functions, gettey function complexity is O(1). Check function complexity is O(1). Find optimal bit function complexity is "sort complexity + n" so my algorithm complexity will be $T(n) \in O(n)$, My algorithm is very simple like that Tust I sorted then I checked list.

Question 3:

My algorithm just making two number subset sums. Because I think the question has some logical mistates so I tried the solution so I write the code. Sum part and but clement then try others, so again again. Also checking sum controls.

My algorithm complexity is "sort complexity on" so I can say like that $z \in T(A) \in O(A)_{II}$

Question L'.

I thought like minimum odit distance. So we can see diagrillete, insert values. If we think all functions and loops my algorithm complexity will be $T(n) \in O(mn)$ (m=first string length, n=second string length)

The problem was about geration count. Our operation count was 2 50 I used the op Count. I wrote a loop (from Oto lealarr)) the loop traverse and finding the gsum.

My Algorithm complexity is $T(n) \in Q(n)$, Because of I used just one loop and it traverses from 0 to lenters).