total 1, ne cost forloop (add all edges) neturn sum chargest nedwork Sort all edges using comerable create arraylist -) a b & d ... if srexer dst is in the arraylists add cost to sum return sum to array change 2d array to array list to use in changest network

total line cost time = O(n) space = intresult tint in for loop Qn) Cheapest nedwork time = sort = n2 \$ 2 forloops = n2 O(vs) Space = int sum + 2 int in Corloops 0(1) to among list time = 2 for loops = 12 = 0(n) Space = 2 int + 1 edges

2 chars + 2 int) O(n2) Saved amount time = an2)+o(n)=an2) Space = O(n) + O(n) = O(n)

I have completed this assignment individually, without support from anyone else. I hereby accept that only the below listed sources are approved to be used during this assignment:

(i) course textbook

Saved amount

- (ii) all material that is made available to me by the professor
- (iii) notes taken by me during lectures

return (task 1- task 2)

I have not used, accessed or taken any unpermitted information from any other source. Hence, all effort belongs to me.

Emir fatih Ayyıldız