Date:

Tank1

Here I used row Dijkstra algorithm
to find the shortest path starting from
a source that is pre determined.
I used a priority Que and a distance
dictionary The I appended the nodes
serially inside the priority queve Then
in the distance dictionary I appended
"Infinity" for all nodes.

Then I made the sounc's distance zero because the distance of the sounce from the sounce is alway zero.

Then I relaxed the neighbors to find the

Trihale

Su Mo Tu We Th Fr Sa Tosh 2 1 First I used dijkstra on pointing on Alice's point When on Bob's point (11) Then I created mynimum meet point Where I checked the possibility of the path based on "Infinity" 9 hept a boolean van "duck-debug" where I returned of I couldn't find any valid path. And free Of I found a possible post

Trihale

Su Mo Tu We Th Fr Sa -mak? A Here I implemented the DSU Studata structure. The initialize function sets up the parents and graph. The Find function recursively finds the voot- The friend\_circle\_sizes function processes a list of union quey, to The veturns the size of the resulting sets after each eaguery.

Trihale

\$ 7 5 Su Mo Tu We Th Fr Sa Date: / / Jak 9 Here used prim algorithm to find the most and calculated the weight of the mst. I randomly picked my sounce as the first node. Then I premoved that node from the "Remaining set" and added to the "mst set" They with the while loop & iterated the vest of the remains nodes. And found their minimum span with the most set source. If my node was disconrected I broke my 160p