1BM18CS023

def dijkstras Algorithm (start, edges):

"Inf")

Adjacency matrix.

risited = []

n = len(edges)

array = [inf]\*n

Path = [[None]] \* n

array[start] = 0

curon\_vertex = Start
path[start] = [start]

Print (path)

while (len(visited) < n):

smallest = inf

for k in range (n):

if (array [k] c smallest and k not in visited): smallest i = k

smallest = avray[t]

copy (fath [curr-vextex], fath [smallest\_i]) Path [smallest\_i]. append(smallest\_i,

Coovert\_vertex = smallest\_i

current\_vertex\_dist = array[curr\_vertex]

For edge in edges[cover\_vertex]: dest\_vertex = edge [0] dist = curon-vertex-dist + edge[1] if (dist < array [dest\_vertex ]): array [dest-vertex] = dist

Visited affend (curr-vortex)

for i in range (len (avoray)):

if (array 17:7 if (array [i] = = in f): array[i]=-1

return array, path

dijkstra sAlgorithm (o, [[1,7], [[2,6]], [3,20]])

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