Write-up

Given a graph and a source vertex in a graph, find Shortest path from source to all other points in given graph.

import Sys

Class Graph():

def _init_ (Self, vertices):

Self. V = Vertices

sey. graph = [[0 for column in range (vertices)]

for sow in range (vertices)]

is for the construction

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def point Solution (Self, dist):

Print (" vertex t- Distance from Source")

for node in range (Sety. V):

Print (node, "t", dist [node])

det min Distance (sey, dist, sptset):

min = Sys. maxsize

for v in range (Sey. v):

if dist(v) < min and SptSet(v) == False:

min = dist[v]

min-index = V

Tehun min_index

def dijkshal self, sic):

dist = (sys maxsize) * self. V

dist(src) = 0

Sptset = [False] + self. V

for cout in range (self. V):

u = self. minDistance (dist, sptset)

Sptset [u] = True

for V in range (self. V):

if self. graph[u][v] > 0 and \

Sptset (v] = = False and \

dist(v) > dist[u] + self. graph[u][v]:

dist(v) = dist[u] + self. graph[u][v]

Self. Print solution (dist)

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