Emport sys. Class Graph():

> det - init\_ (self, verbies): Self. V = verbiel: Self. graph = [(o for comm en range (verbies)] For sow en range (verbies)

det print-sommion (self, diet):

print "Vertex) pis hance from source"

for soude in range (self.v):

print node, "It", dest (node)

def minderhance (self, dist, &ptset):

min = sys. maxint

for ven range (self. v):

ef electiv] < min and sptset[v] == False:

min = deet [V]

Retron men-endex.

det dijskitra (self, src):

dist = [sys. maxint] \* self. V.

dist [src] = 0
spt set = [false] \* self. V.

for count en range (self. V)

u = self. min Plenence (dist, sptset)

spt set fet] = Tre.

for ven range (eeff.v); ef : self. graph [u][v].>o and eptset [v]==False and \ deshtv] > distruj + self. graphtvj(i). dist [v] = dist [u] + self. graph[v][v] self. printsolubion (dist) 9= Graph(9) g. Graph = [[0, 4,0,0,0,0,0,8,0], [4,0,8,0,0,0,0,11,0), [0,8,0,7,0,4,0,0,2],  $\{0,0,7,0,9,14,0,0,0,0\},$ [0,0,0,9,0,10,0,0), [0,0,4,14,10,0,2,0,0],

[0, .0, 0, 0, 0, 2, 0, 1, 6].

[2,11,0,0,0,0,1,0,7],

[0,0,2,0,0,6,千,可]。

g. dijksma (0);