Print Path (porust

Count (if it end);

ist parent (v3)

(1) = (0) two?

(1999) = (1) loib

1 took delint diet ti

Dijkstras Algorithm

include (bits/Stdc++.h) Using namespace std;

define V9

int mindist (int dist [], bool sptset [])

int min = 9999, min-index;
for (int V=0; V<V; V++)

if (spleet [v] = = false & & dist [v] c = min)

min = dist [v], min_index = v;

return min-index;

Void print Path (int parent [], inti)

if (pount [i] = = -1) retur;

oblet city long

JJ. Mylana 1BM18 CS039

PrintPath (parent, parent [i]); cout (i (end); int print sol(int dist [], intr, int parent ()) int dic=o; Cout K" In" 12 Duc << "-4" ! Kill "It It " K dist [i] !!" ! E !!" U su lendl; 3 Print Path (parent, i); Void dij Kstra (int graph (V)[V], int Sic) int dist [V]; ing (by) tollo , riva bool Spt Set [V]; int parent [V]; for (int 1=0; i(V; i++) til Hoteling losel 1 paunt [0] =-1; (r = (2) towar) for dist [i] = 9999; gotset [i] = Jalge

1209

JJ. Meghana IBM 18CJ039

dist [Suc)=0; for (int count =0; count < V-1; count ++) int U = mindist (dist, Sptset); stact (U) = true; for (int V=0; VxV; V++) 4 (! sptset [v) 94 graph [v)[v] 49 dist [v] + graph [v)[v] (dist-CV) parent [v]=Uj

dist [v] = dist [v] + graph [v)[v); print dol (dist, V, paunt); int main () int graph IVJEVJ; Cout « " Fatu the graph: " { end! ;

tilleg.

D. Meghana 1BM18 C3039

to=(ub) tob

for (int i=0; i<v; i++) { for (int j=0; j<v; i++) Die Cinst graph TidCidi

Cout ("Fatu the Source: " (lend); of Effect (1) by Josep (1) for the (1) for

dijkstia (graph, Dic);

ablet (distry paunt);

parent [12]=U)

Cascal y done