Sorgeer Kuman Singh 1 BM 18 CSO 23 B3 DiJKstra's Algorithm import Java. wtel. * clan Edge {

int dre, det, w;

public cape (s, d, w);

this. Sre = s;

this. det = d; this, w= w; 34 clan rode int Vertex, w; public Node (int V, int w) { this, vester = v; this, w = w; 33 class Graph {

Uist < Liet < Edge? > ady List = null;

Graph (List < Edge? codes, int n) {

adylist = www. Array List () c);

for (int i = 0; i < n; i+t) { addrest add (new Array List ()) for (Edge edge: edge) ?
adgList. get (edge, Ere), add (edge); y z z clan Diskstra 1 Steep's vaid get Konte (int [] prev, inti, List (Inty) rente)

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Songeer Kunnan Singh Clar 12 MIFCS093 B3 Date Page classmate eur 10-12-20 Prgm 9 Distra's Algo 1/(i/o) } get Route (pra, prev [i], route);
youte. add (i); y Public State Vaid Shortest poth (Grafth grafth, intson, N)
Priograpy Overe (Nade) nuin Meap grafth, intson, N minMap = new Priority duce (> (Comparator, min Meg. add (hew Node (ST(10)); 1st (Integer) dist = new Armay List () dist. Set (Sre, 0) - Collection. In Copies (n, Intg. Ma) booken [] done = new booken [n], done [src] = true 1st () prev = hew int [n] prev [Sre] = -1 List (Fatigue > neutle = new Array < > () while (! min Heap. Is empty () Nade node = nin Meets poll () V int a = node, Vertex for (Edge edge großh, adplist get (u), l'at w= colle. w/ f (!don[v] && (dist-get(u) +w) (distyle dist. Set (v, dist. get(u) +w);

prev (v) = u; nin Mech. add (new rode (u, dist. get(v))

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113 M 1 f CS o 9 3 Pram 9 Date
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done [u] = prie!
for (int i=1 , i(n', i+1) {
of (i!= Src Ax dist. jet (i) != Tutger un
if (i!= Src && dist. jet (i)!= Datger. MM. M. M. Jet (j) = Datger. MM. M. M
- 1/1 1 Pate of 1/2 . Min Got
System ent printly ("Path ("Id > Id): min God = '/.d and Route is "/.c"; sre, i, det. get(i). route); youte. clear();
rente. clear ()
3
n n n n n n n n n n n n n n n n n n n
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