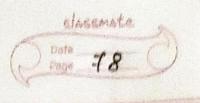
Find Minimum cost spanning tree of given underected graph wing Primbs ougotetim. uniposit gaia. ut l' scannel; epublic elais Presm & Statec unt SIZE=10' SLOUTC IN INFINITY = 999", public static word main (String[] asys){ une GEJEJ = new and [SIZE] [SIZE]; unt no des; unt VI, Va, length, I, P, n; Syrem-out printentain Prim's algorithmin's System-out pronten ("Entutheno-of rodus in graph") Scanne in= new Scanne (System in) 10 tolars. not subon System out printer (" In Enter the matrix: ") Po (i=0, i cnoder, 144) 189=0;jcnodu;j++) Gulling = wound System-out-println("the entire of metrix:") 88 (1:0) & chodia; 2+(). for(j=0) (nody;j++) 1 Systemout. print (gridgid+"); 4 S.miten.out prontln(); promi(g, rodu); 9



pulle fratic void promy (int gests, indrades) Put treet] = new fut(812f]; A PAR PUNK / MADE ING. COM ent min-dest = 0, v1=0, v2=0, total=0; for ci=0; pc nodus; i++) trutij=0) 0 to3 stoggin System. out . printen (" minimum spanning tree ws: missing recomposition of som forther treecoj=ij + strong all 1900,0 for CK = 0', K < nochs - 1; K++) & & 60

4 0 +0 2 (K43) 1111 6 0 8 men-dest = INFINITY : 10 & d. For (P=K; Pcnodus; ito) fire 1 + por For (1=0; ) chodus; j++)1 up ((grejre) 1=0) & & ((trecrij==1 & trecrij==0 & & tree ((() = = 1))) of grij Gj J cmin-dist) 1 min-dust = gaiscos いしょう いるニン System.out. printent "In Edge C"+VI+"+V2+"]

and weight "+min-dist)

the CVI) = tree CVI)=1;

total = total min-dist; y

System. out. prinzlage total point legin: "they

yy

output:

PRIM's Augorithm

Entre the no. of nodes in graph:

entre the matrix

0 2 8 5:

2 0 4 999

8 4 0 3.

5 49 3 0

The Endeud matrix us:

0 2 8 5 2 0 4 999 8 1 0 3

minimum spanning tree is:

coly [0] I and weight a

coly [1,2] and weight t

edge [8,3] and weight 5

total path length is: 9