

pto) grown a weighted connected graph (directed conditected) find the length of shortest patrix-from each muser to all the other

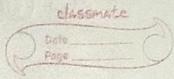
queticea.

A COLLINE COMPANY OF THE COLLINE COMPANY Import java. util. Scannel) pullic slaw flogds public Hatic Guoid main (String EJ ays) [int all to - new int [10] [10] Prot 9,1) Scannu in = new Scannu (Syptem.in) System-out-println (" *+ Floy dis ayolimm+) grutich. (4) (C) there is a series of System-out-println (" Entre coetght y matrix") fd'(1=1), ic=n)1++) for cj=l', jc=n', jtt) Cijijj=in.numno; System-out-println(" Entured matrix: ") for (1=1)1c=n',1++){ fd(j=1)jz=n;j++)1

Syptem-out-println()3

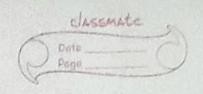
Syptem out print (acij [j] +" \t")

4



flogd (ain); System our pirale (" du pair shortest pars mamin: ") for (1=1) i (= n) i ++) of for (j=1;j(=n;j++) System.out. print (acrocy +"1+"); Syptemious println() y ytem. out-println(4****) Static void floyd (int act, intn) for (int k=1", rc=n', r++) of be (int P=1)i(=n)1++) fl (int j=1', j c=n',j++1) (aciscis) -min (aciscis), aciscissis Static int min cinta, intb) u a>b retuen bi returna;

min (Element , June 10 will + same ods 1st ling) Marie (a) king output: Enter flogds Algorithm ### (9)
Enter the number of nutrices? 8 Enty the weight g matrix: a o 2 999 999 0 999 999 c 999 999 0 4 d 8 10 999 0 000 Entweed weight matrix: 2 999 999 6 0 999 999 999 999 0 4 8 10 999 0 All pour shortest pour matrix. 2. 999 999 0 6 0 999 999 12 14 0 4 10 999 00 tracing: 164 (100) K=1 1=9 9=1 100000117=2 aci) [1] = min [0,0]=0 aci) [2] -min [2,0+2] ?



j=3 a[1](3)= min[999,0+999]=999 1= 4 acid (4) = min [999, 04999] =999 J=4 a(2,4) = minc 999, 6+999) = 999, 8 10 9990 P=3 1 0 (3,1) = 999 a (3,2) = 999 a (3,3) = 0 a (3,4) = 4 0=(4,4)= PPP=(E,4)D 01=(S,4)D 8=(1,4)=0 K=2 f=1 j=1 a[i][i] = amin(0,2+6)=0 a[i][i] = min(2,2+0)=2909= [4] [3] = 909 = [6] [1]0 P-2 a [2] [1] = 6 a [2] [2] = 0 a [2] [3] = 999 a (2) (4) = 999 8=3 9 C87 (2) = 999 9 (3) (2) =999 9(3) (4) =0 9(3) (4)=4 T=4 a(4)(1) = 8 a(4)(2) = 10 a(4)(3) = 999 a(4)(4)=0 D2= 0 & 999 999 6 0 999 999 K=3 acijcjj=0 matrix remainifami 7999 999 0 4 at K=4 action = 0 8 10 999 0 a [3] [1] = 12 a [3] [2] = 14