

## Algoritma:

for i=1 to n

for j=1 to n

if  $A[i,j] \neq 0$  then D[i,j]=A[i,j]

else D[i,j]=∞

repeat

repeat

$$O(\sqrt{3})$$

for 
$$k=1$$
 to  $n$ 

for i=1 to n

for j=1 to n

1=0 j2 t=1 don.

 $if \ (D[i,\!k] + D[k,\!j] \le D[i,\!j]) \ then \ D[i,\!j] = D[i,\!k] + D[k,\!j]$ 

repeat

repeat

repeat

2200

0(0,2) = 1+1 = 2

if (D[0,1) + D[1,3] 2 D[0,1))

1

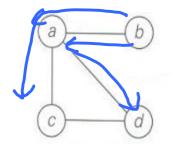
221 × gralle

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icgor sitnizio: Sedmola tim tope

cifturi moliz edigor.

## Yollorin Sourlmos

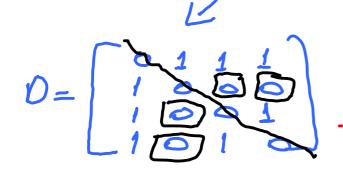


$$A = \begin{bmatrix} a & b & c & d \\ 0 & 1 & 1 & 1 \\ 1 & 0 & 0 & 0 \\ c & 1 & 0 & 0 & 1 \\ d & 1 & 0 & 1 & 0 \end{bmatrix}$$

$$A = \begin{bmatrix} a & b & c & d \\ 0 & 1 & 1 & 1 \\ 1 & 0 & 0 & 0 \\ c & d & 1 & 0 & 1 \\ d & 1 & 0 & 1 & 0 \end{bmatrix} \qquad A^2 = \begin{bmatrix} a & b & c & d \\ 3 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \\ d & 1 & 1 & 1 & 2 \end{bmatrix}$$

Bir graf

Grafın komşuluk matrisi A



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Son ablitung knowed grafin cop.

Ornolde Staden cop: 2'dm. Lion (6) = 2

## Eccentricity

```
for (i=0;i<n;i++)
                                               printf ("Tum tepelerin eccenricity degerleri\n");
     for (j=0;j<n;j++)
                                               for (i=0;i<n;i++)
      if (j==0) enb=d[i][j];
      if ( d[i][j] >= enb ) enb=d[i][j];
                                                    for (j=0;j<1;j++)
      e[i][0]=enb;
                                                     printf ("%d---> %d",i+1, e[i][j]);
                                               }printf ("\n");}
for (i = 0; i < n; i + t)

If (i = 0; i < n; i + t)

if (ef; i = 0; i < n; i + t)

end = efi = 0; i < n; i + t
       pront f ('grafin copi = %2d', en6);
      for (i=0; i2n; i++)

{ if (e[:][0] == enb) printf ('alob ky) tooks,
e(:)(0));
```

printf ("\n");

yer 60 P

(n træli)

Pa grafinin Goer ve vercom nedic? ecannicity  $e(\eta=3)$   $e(\eta=3)$   $e(\eta=3)$   $e(\eta=3)$ dicm(Pa) = 3 r(Pa) = 2e(1) = e(5) = 4 Liouls) = 4( 1 2 3 4 5 PS e12)=e(a)=3 ((15)=2) e(3) = 2r(Pn)=7 Siem (Pn)=!  $\Gamma(P_N) = \left\lfloor \frac{n}{2} \right\rfloor$  alta yourly or. Lica (Pn)=n-1 [= 12.5]=2 しを」= しゃ」= 2// نزنه ودهامازال صياله -(c)=? dim(n)=-(cn)=? [2] 1) diam (Cn) ? c(kn) =? 2) dian ( kn)? 3) dicm( K1,n)? r( K1,0)=? (1) diam (wain)? ((win)=7