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1  #include<stdio.h>
2  #include<conio.h>
3  #include<math.h>
4  int max(int,int);
5  void warshal(int p[10][10],int n) {
6      int i,j,k;
7      for (k=1;k<=n;k++)
8          for (i=1;i<=n;i++)
9              for (j=1;j<=n;j++)
10                 p[i][j]=max(p[i][j],p[i][k]&& p[k][j]);
11 }
12 int max(int a,int b) {
13     ;
14     if(a>b)
15         return(a); else
16         return(b);
17 }
18 void main() {
19     int p[10][10]= {0},n,e,u,v,i,j;
20
21     printf("\n Enter the number of vertices:");
22     scanf("%d",&n);
23     printf("\n Enter the number of edges:");
24     scanf("%d",&e);
25     for (i=1;i<=e;i++) {
26         printf("\n Enter the end vertices of edge %d:",i);
27         scanf("%d%d",&u,&v);

```

I


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18 void main() {
19     int p[10][10] = {0}, n, e, u, v, i, j;
20
21     printf("\n Enter the number of vertices:");
22     scanf("%d", &n);
23     printf("\n Enter the number of edges:");
24     scanf("%d", &e);
25     for (i=1; i<=e; i++) {
26         printf("\n Enter the end vertices of edge %d:", i);
27         scanf("%d%d", &u, &v);
28         p[u][v] = 1;
29     }
30     printf("\n Matrix of input data: \n");
31     for (i=1; i<=n; i++) {
32         for (j=1; j<=n; j++)
33             printf("%d\t", p[i][j]);
34         printf("\n");
35     }
36     warshal(p, n);
37     printf("\n Transitive closure: \n");
38     for (i=1; i<=n; i++) {
39         for (j=1; j<=n; j++)
40             printf("%d\t", p[i][j]);
41         printf("\n");
42     }
43     getch();
44 }

```


