```
9 #include<stdio.h>
10 #include<conio.h>
    int n,a[10][10],p[10][10];
    void warshall(int n,int a[10][10],int p[10][10]){
         int i,j,k;
for(i=0;i<n;i++)</pre>
13
14
           for(j=0;j<n;j++)
p[i][j]=a[i][j];</pre>
15
16
          for(k=0;k<n;k++)
17
             for(i=0;i<n;i++)
18
            for(j=0;j<n;j++)
if((p[i][j]==0) && (p[i][k]==1 && p[k][j]==1))
p[i][j]=1;</pre>
19
20
21
22 }
23 - void main(){
         int i,j;
24
         printf("Enter the number of vertices:\n");
scanf("%d",&n);
25
26
         printf("Enter the adjacency matrix:\n");
27
         for(i=0;i<n;i++){
28 -
             for(j=0;j<n;j++){
    scanf("%d",&a[i][j]);
29 -
31
32
33
         warshall(n,a,p);
         printf("Trasitive closure:\n");
34
35 -
         for(i=0;i<n;i++){
              for(j=0;j<n;j++){
printf("%d\t",p[i][j]);
36 -
37
```

```
for(1=0;1<n;1++)
  for(j=0;j<n;j++)
  p[i][j]=a[i][j];</pre>
14
15
16
17
          for(k=0;k<n;k++)
              for(i=0;i<n;i++)</pre>
18
            for(j=0;j<n;j++)
if((p[i][j]==0) && (p[i][k]==1 && p[k][j]==1))
p[i][j]=1;</pre>
19
20
21
22
    void main(){
23 -
24
          int i,j;
          printf("Enter the number of vertices:\n");
25
          scanf("%d",&n);
printf("Enter the adjacency matrix:\n");
26
27
          for(i=0;i<n;i++){
28 -
             for(j=0;j<n;j++){
    scanf("%d",&a[i][j]);</pre>
29 -
30
31
32
          warshall(n,a,p);
33
          printf("Trasitive closure:\n");
34
          for(i=0;i<n;i++){
35 -
              for(j=0;j<n;j++){
    printf("%d\t",p[i][j]);
36 -
37
              }
printf("\n");
38
          getch();
41
42 }
43
```

```
There the number of vertices:

Anter the adjacency matrix:

11 0 1

0 0 1 1

0 1 0 1

0 1 1 1

0 1 1 1

0 1 1 1

...Frogram finished with exit code 0

Press ENTER to exit console.
```