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1  #include<stdio.h>
2  void warshal(int p[10][10],int n) {
3  int i,j,k;
4  for (k=1;k<=n;k++)
5  for (i=1;i<=n;i++)
6  for (j=1;j<=n;j++)
7  p[i][j]= p[i][j] || (p[i][k] && p[k][j]);
8  }
9  void main() {
10 int p[10][10], n, i,j;
11 printf("\n Enter the number of vertices:");
12 scanf("%d",&n);
13 printf("\n Enter the Adj matrix:");
14 for (i=1;i<=n;i++) {
15 for (j=1;j<=n;j++){
16 scanf("%d",&p[i][j]);
17 }
18 }
19 printf("\n Matrix of input data: \n");
20 for (i=1;i<=n;i++) {
21 for (j=1;j<=n;j++)
22 printf("%d\t",p[i][j]);
23 printf("\n");
24 }
25 warshal(p,n);
26 printf("\n Transitive closure: \n");
27 for (i=1;i<=n;i++) {
28 for (j=1;j<=n;j++)
29 printf("%d\t",p[i][j]);
30 printf("\n");
31 }
32 }
33

```