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1  #include<stdio.h>
2  #include<conio.h>
3  int a,b,u,v,n,i,j,ne=1;
4  int visited[10]= {
5      0
6  }
7  ,min,mincost=0,cost[10][10];
8  void main() {
9
10     printf("\n Enter the number of nodes:");
11     scanf("%d",&n);
12     printf("\n Enter the adjacency matrix:\n");
13     for (i=1;i<=n;i++)
14         for (j=1;j<=n;j++) {
15             scanf("%d",&cost[i][j]);
16             if(cost[i][j]==0)
17                 cost[i][j]=999;
18         }
19     visited[1]=1;
20     printf("\n");
21     while(ne<n) {
22         for (i=1,min=999;i<=n;i++)
23             for (j=1;j<=n;j++)
24                 if(cost[i][j]<min)
25                     if(visited[i]!=0) {

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18 }
19 visited[1]=1;
20 printf("\n");
21 while(ne<n) {
22     for (i=1,min=999;i<=n;i++)
23         for (j=1;j<=n;j++)
24             if(cost[i][j]<min)
25                 if(visited[i]!=0) {
26                     min=cost[i][j];
27                     a=u=i;
28                     b=v=j;
29                 }
30     if(visited[u]==0 || visited[v]==0) {
31         printf("\n Edge %d:(%d %d) cost:%d",ne++,a,b,min);
32         mincost+=min;
33         visited[b]=1;
34     }
35     cost[a][b]=cost[b][a]=999;
36 }
37 printf("\n Minimun cost=%d",mincost);
38 getch();
39 }

```

input

Enter the number of nodes:6

Enter the adjacency matrix:

```
0 4 0 0 0 2
4 0 6 0 0 3
0 6 0 3 0 1
0 0 3 0 2 0
0 0 0 2 0 4
2 3 1 0 4 0
```

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Edge 1:(1 6) cost:2

Edge 2:(6 3) cost:1

Edge 3:(3 4) cost:3

Edge 4:(4 5) cost:2

Edge 5:(6 2) cost:3

Minimun cost=11

...Program finished with exit code 0

Press ENTER to exit console.□