

```

#include<stdio.h>

#include<conio.h>

int a,b,u,v,n,i,j,ne=1;

int visited[10]= {

    0

}

,min,mincost=0,cost[10][10];

int main() {

    printf("\n Enter the number of nodes:");

    scanf("%d",&n);

    printf("\n Enter the adjacency matrix:\n");

    for (i=1;i<=n;i++)

        for (j=1;j<=n;j++) {

            scanf("%d",&cost[i][j]);

            if(cost[i][j]==0)

                cost[i][j]=999;

        }

    visited[1]=1;

    printf("\n");

    while(ne<n) {

        for (i=1,min=999;i<=n;i++)

            for (j=1;j<=n;j++)

                if(cost[i][j]<min)

                    if(visited[i]!=0) {

                        min=cost[i][j];

                        a=u=i;

                        b=v=j;

                    }

        if(visited[u]==0 || visited[v]==0) {

            printf("\n Edge %d:(%d %d)

cost:%d",ne++,a,b,min);

            mincost+=min;

            visited[b]=1;

```

```
    }

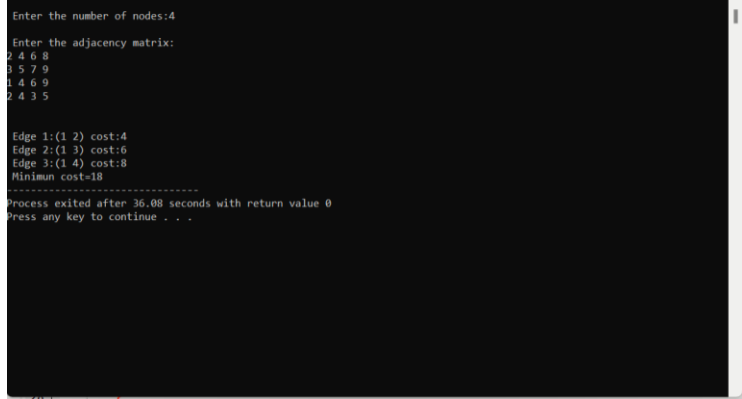
    cost[a][b]=cost[b][a]=999;

}

printf("\n Minimun cost=%d",mincost);

getch();

}
```



```
Enter the number of nodes:4
Enter the adjacency matrix:
2 4 6 8
3 5 7 9
1 4 6 9
2 4 3 5

Edge 1:(1 2) cost:4
Edge 2:(1 3) cost:6
Edge 3:(1 4) cost:8
Minimun cost=18
-----
Process exited after 36.08 seconds with return value 0
Press any key to continue . . .
```