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9 prog
#include<stdio.h>
int main()
{
int cost[10][10], visited[10]={0}, i, j, n, no_e=1, min, a, b, min_cost=0;
printf("Enter number of nodes");
scanf("%d",&n);
printf("Enter cost in form of adjacency matrix\n");
//input graph
for(i=1;i<=n;i++)
{
for(j=1;j<=n;j++)
{
scanf("%d",&cost[i][j]);
// cost is 0 then initialize it by maximum value
if(cost[i][j]==0)
cost[i][j]=1000;
}
}
// logic for finding minimum cost spanning tree
visited[1]=1; // visited first node
while(no_e<n)
```

{

{

min=1000;

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

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

// in each cycle find minimum cost

```
{
if(cost[i][j]<min)</pre>
{
if(visited[i]!=0)
{
min=cost[i][j];
a=i;
b=j;
}
}
}
}
//if node is not visited
if(visited[b]==0)
{
printf("\n%d to %d cost=%d",a,b,min);
min_cost=min_cost+min;
no_e++;
}
visited[b]=1;
// initialize with maximum value you can also use any other value
cost[a][b]=cost[b][a]=1000;
}
printf("\nminimum weight is %d",min_cost);
return 0;
```