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Program for prims algorithm
#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("\nEnter the number of nodes:");
        scanf("%d",&n);
        printf("\nEnter 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)
```

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cost[i][j]=999;
}
visited[1]=1;
printf("\n");
while(ne < n)
{
          for(i=1,min=999;i<=n;i++)
          \mathsf{for}(\mathsf{j=1};\mathsf{j<=n};\mathsf{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)
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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);
```