Prim's Algorithm

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#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];
void main()
clrscr();
printf("n Enter the number of nodes:");
scanf("%d",&n);
printf("n Enter the adjacency matrix:n");
for(i=1;i\leq n;i++)
 for(j=1;j\leq 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\leq n;i++)
 for(j=1;j\leq n;j++)
  if(cost[i][j]<min)
   if(visited[i]!=0)
   min=cost[i][j];
   a=u=i;
   b=v=i;
 if(visited[u]==0 \parallel visited[v]==0)
 printf("n Edge %d:(%d %d) cost:%d",ne++,a,b,min);
 mincost+=min;
 visited[b]=1;
```

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cost[a][b]=cost[b][a]=999;
}
printf("n Minimun cost=%d",mincost);
getch();
}
```