



prims\_prog - [prims\_prog.dev] - Dev-C++ 5.11

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(globals)

prim.cpp

```
20 }
21 }
22 prims();
23 getch();
24 return 0;
25 }
26 void prims()
27 {
28     int i, j, u, v, min;
29     int ne=0, mincost=0;
30     int elec[10];
31     for (i=1; i<=n; i++)
32     {
33         elec[i]=0;
34     }
35     elec[1]=1;
36     while (ne!=n-1)
37     {
38         min=9999;
39         for (i=1; i<=n; i++)
40         {
41             for (j=1; j<=n; j++)
42             {
43                 if (elec[i]==1)
44                 {
45                     if (c[i][j]<min)
46                     {
47                         min=c[i][j];
48                         u=i;
49                         v=j;
50                     }
51                 }
52             }
53         }
54         if (elec[v]!=1)
55         {
56             printf(" \n %d - - - - > %d = %d \n", u, v, min);
57             elec[v]=1;
58             ne=ne+1;
59             mincost=mincost+min;
60         }
61         c[u][v]=c[v][u]=9999;
62     }
63     printf(" \n mincost = %d", mincost);
64 }
65
66
```

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C:\Users\Admin\OneDrive\Desktop\4th sem\ADA lab\ADA lab programs\prims\prims\_prog.exe

enter the no. of vertices: 6

enter the cost matrix:

9999	3	9999	9999	6	5
3	9999	1	9999	9999	4
9999	1	9999	6	9999	4
9999	6	6	9999	8	5
6	9999	9999	8	9999	2
5	4	4	5	2	9999

1----->2=3

2----->3=1

2----->6=4

6----->5=2

6----->4=5

mincost=15

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