

E

45

main.c

```
34 {
35     for(j=1;j<=n;j++)
36     {
37         if(c[i][j]<min)
38         {
39             min=c[i][j];
40             u=a=i;
41             v=b=j;
42         }
43     }
44 }
45 while(parent[u]!=0)
46 {
47     u=parent[u];
48 }
49 while(parent[v]!=0)
50 {
51     v=parent[v];
52 }
53 if(u!=v)
54 {
55     printf("\n%d----->%d=%d\n",a,b,min);
56     parent[v]=u;
57     ne=ne+1;
58     mincost=mincost+min;
59 }
60 c[a][b]=c[b][a]=9999;
61 }
62 printf("\nmincost=%d",mincost);
63 }
64
```

```
> clang-7 -pthread -lm -o main main.c  
> ./main
```

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
```

2----->3=1

5----->6=2

1----->2=3

2----->6=4

4----->6=5

mincost=15