

kruskal - [kruskal.dev] - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

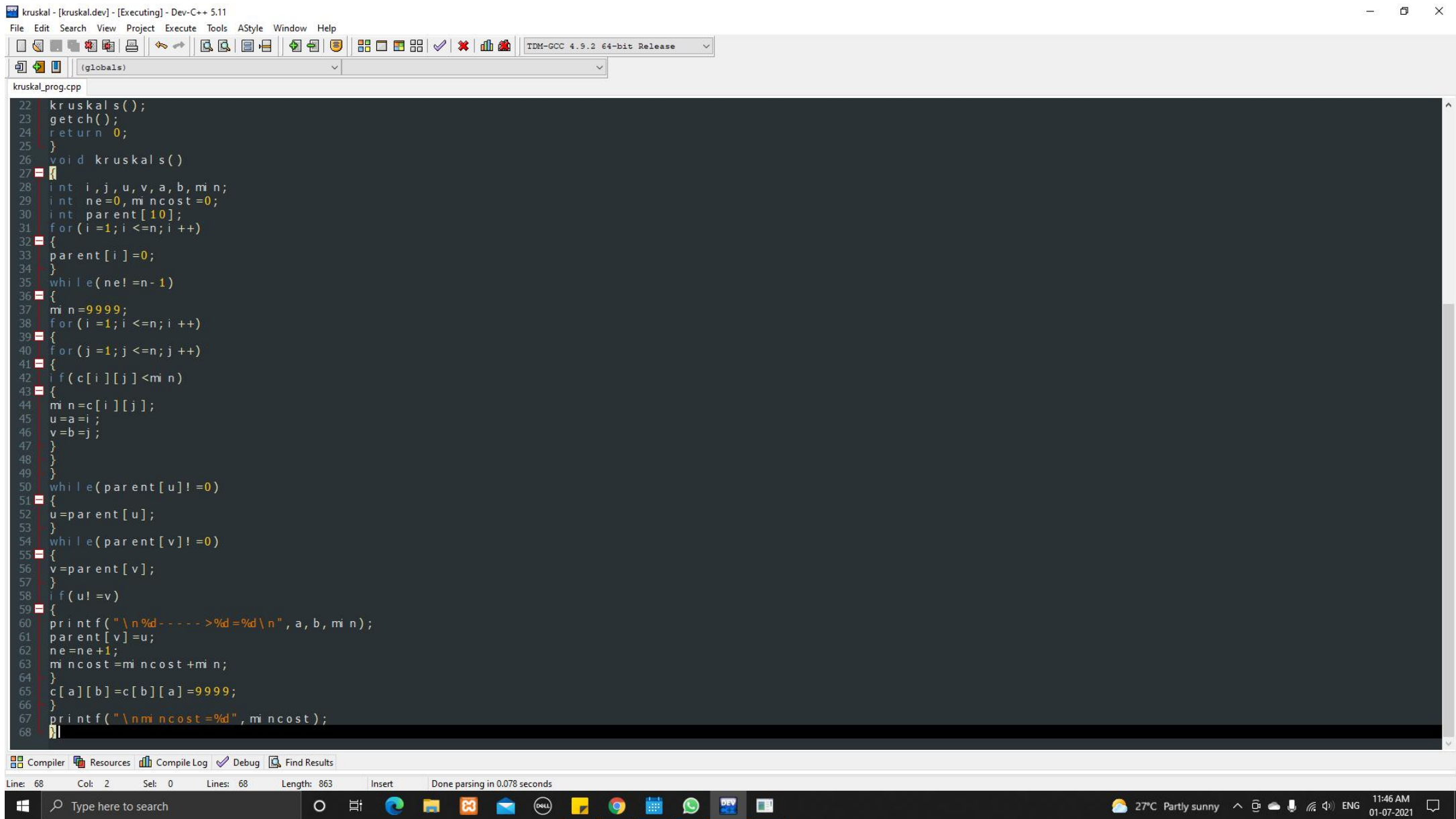
kruskal_prog.cpp

```
1  #include<stdio.h>
2  #include<conio.h>
3  #include<process.h>
4  #include<stdlib.h>
5  void kruskals();
6  int c[10][10],n;
7  int main()
8  {
9      int i,j;
10     system("cls");
11     printf("\nenter the no. of vertices:\t");
12     scanf("%d",&n);
13     printf("\nenter the cost matrix:\n");
14     for(i=1;i<=n;i++)
15     {
16         for(j=1;j<=n;j++)
17         {
18             scanf("%d",&c[i][j]);
19         }
20     }
21     kruskals();
22     getch();
23     return 0;
24 }
25 void kruskals()
26 {
27     int i,j,u,v,a,b,min;
28     int ne=0,mincost=0;
29     int parent[10];
30     for(i=1;i<=n;i++)
31     {
32         parent[i]=0;
33     }
34     while(ne!=n-1)
35     {
36         min=9999;
37         for(i=1;i<=n;i++)
38         {
39             for(j=1;j<=n;j++)
40             {
41                 if(c[i][j]<min)
42                 {
43                     min=c[i][j];
44                     u=a=i;
45                     v=b=j;
46                 }
47             }
48         }
```

Compiler Resources Compile Log Debug Find Results

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C:\Users\Admin\OneDrive\Desktop\4th sem\ADA lab\ADA lab programs\krushka\kruskal.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
```

2----->3=1

5----->6=2

1----->2=3

2----->6=4

4----->6=5

mincost=15



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