

Kruskal's Minimum Spanning Tree Algorithm

Niraj Kumar

March 2021

1 Output Examples

The vertex number starts from 1.

1.1 Example 1

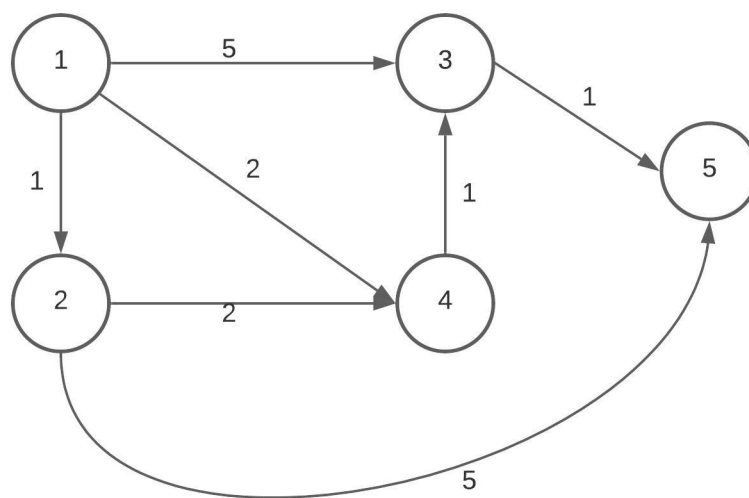


Figure 1: Example 1

```
Enter the number of vertices: 5
Enter the number of edges: 7
Enter the edge weight(like u v w(u, v)): 1 3 5
Enter the edge weight(like u v w(u, v)): 1 2 1
Enter the edge weight(like u v w(u, v)): 1 4 2
Enter the edge weight(like u v w(u, v)): 2 4 2
Enter the edge weight(like u v w(u, v)): 2 5 5
Enter the edge weight(like u v w(u, v)): 3 5 1
Enter the edge weight(like u v w(u, v)): 4 3 1
Printing the spanning tree
(1, 2) weight=1
(3, 5) weight=1
(4, 3) weight=1
(1, 4) weight=2
```

Figure 2: Output 1