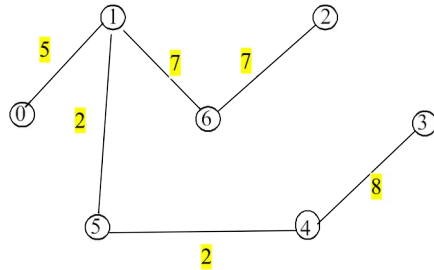


Chapter 22 Weighted Graphs and Applications

1.



2. Yes

3. $O(n^2 \log n)$, n is the number of vertices.

4. line 77 in WeightedGraph.py, the loop

```
while (len(T) < numberOfVertices) {
```

continues if $\text{len}(T) < \text{numberOfVertices}$. If the graph is not connected, the loop will not terminate.

5. Omitted

6. No.

7. $O(n^2 \log n)$, n is the number of vertices.

8. line 131 in WeightedGraph.py, the loop

```
while (len(T) < numberOfVertices) {
```

continues if $\text{len}(T) < \text{numberOfVertices}$. If the graph is not connected, the loop will not terminate.