

Q23) Check if a given graph is tree or not

An undirected graph is tree if it has following properties.

- 1) There is no cycle.
- 2) The graph is connected.

Q24) Find K'th Smallest/Largest Element in Unsorted Array

```
public static int kthSmallest(Integer[] arr,  
                                int k)  
{  
    // Sort the given array  
    Arrays.sort(arr);  
  
    // Return k'th element in  
    // the sorted array  
    return arr[k - 1];  
}
```

Q25) How to find the shortest path between two nodes?

Dijkstra's algorithm finds a shortest path tree from a single source node, by building a set of nodes that have minimum distance from the source.