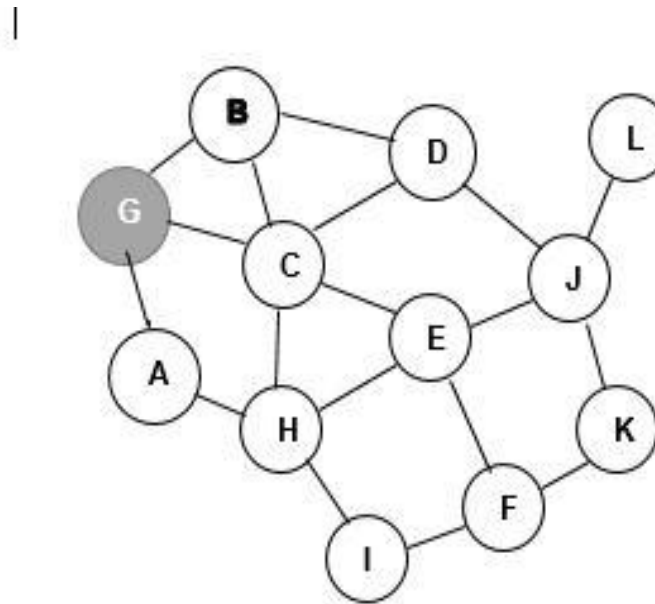The depth first search algorithm is adapted for the following connected graph

Using 11 of the above nodes except node L. Node G is the starting point for the tree traversal which has the bellow adjacency matrices.

```
0 1 1 1 0 0 0 0 0 0 0
1 0 0 0 1 0 0 0 0 0 0
1 0 0 0 0 0 1 1 0 0 0
1 0 0 0 1 1 1 0 0 0 0
0 1 0 0 0 1 0 0 0 0 0
0 0 0 0 1 0 0 0 0 1 0
0 0 1 1 0 0 0 0 1 1 0
0 0 1 0 0 0 0 0 1 0 0
0 0 0 0 0 0 1 1 0 0 1
0 0 0 0 0 1 1 0 0 0 1
0 0 0 0 0 0 0 0 0 1 1
```