Date: Dec 03. 2014   Time: 10 mins.

```
Class Graph
{
        public:
        void  DFS (int node)
        {
                // use Adjacency Matrix representation for graph (adjMat[ ][ ] is an n x n
                adjacency matrix)
        }
```

Write the code for the Depth First Search function prototype given above. Also give arguments about its Time Complexity.

```
void Graph:: DFS (int node)
{
        int i=0
        int i(0), j(0);
        for (i=0; i<n; i++)
        {   for(j=0; j<n; j++)
                {   if( adjMat [i][j] == 1)
                        {  code stack for node
                        {   i = j;
                            j = 0;
                        }
                }
        }
}
```

n