```
In [4]:
        #DFS
        import sys
        tree = {'A': ['B', 'C', 'E'],
                  'B': ['A','D', 'E'],
                  'C': ['A', 'F', 'G'],
                  'D': ['B'],
                  'E': ['A', 'B', 'D'],
                  'F': ['C'],
                  'G': ['C']}
        def dfs(tree, root):
            visited = []
            activelist = [root]
            dest= 'B'
            while activelist:
                 node = activelist.pop()
                 if node==dest:
                     print('Found', visited)
                     sys.exit(0)
                 if node not in visited:
                     visited.append(node)
                     neighbours = tree[node]
                     for neighbour in neighbours:
                         activelist.append(neighbour)
            #return visited
            print("not found")
        dfs(tree, 'A')
        Found ['A', 'E', 'D']
        An exception has occurred, use %tb to see the full traceback.
        SystemExit: 0
        /home/jovyan/IPython/core/interactiveshell.py:2969: UserWarning: To exit: use
         'exit', 'quit', or Ctrl-D.
          warn("To exit: use 'exit', 'quit', or Ctrl-D.", stacklevel=1)
In [ ]:
```