DLS

```
In [1]: def dls(graph, start, limit):
     visited = set()
     stack = [(start, 0)]
     while stack:
         vertex, depth = stack.pop()
         if vertex not in visited:
             print(vertex, end=" ")
             visited.add(vertex)
             if depth < limit:</pre>
                 for neighbor in reversed(graph[vertex]):
                     if neighbor not in visited:
                         stack.append((neighbor, depth + 1))
graph = {
     'A': ['B', 'C'],
     'B': ['D', 'E'],
    'C': ['F'],
     'D': [],
     'E': ['F'],
     'F': []
dls(graph, 'A', 2)
```

ABDECF