

```
warehouse_graph = {  
    'A': ['B', 'C'],  
    'B': ['D', 'E'],  
    'C': ['F'],  
    'D': [],  
    'E': ['F'],  
    'F': []  
}  
  
def dfs(graph, start, goal, visited=None, path=None):  
    if visited is None:  
        visited = set()  
    if path is None:  
        path = []  
    visited.add(start)  
    path.append(start)  
    if start == goal:  
        return path  
    for neighbor in graph[start]:  
        if neighbor not in visited:  
            result = dfs(graph, neighbor, goal, visited, path[:])  
            if result:  
                return result  
  
    return None  
|  
start_node = 'A'  
goal_node = 'F'  
path_found = dfs(warehouse_graph, start_node, goal_node)  
print(f"DFS Path from {start_node} to {goal_node}: {path_found}")
```

Python Shell 3.11.5

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Python 3.11.5 (tags/v3.11.5:ccc6ba9, Aug 24 2023, 14:38:34) [MSC v.1936 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

```
>>> = RESTART: C:/Users/welcome/AppData/Local/Programs/Python/Python311/POAIexp2.py  
DFS Path from A to F: ['A', 'B', 'E', 'F']
```

```
>>> = RESTART: C:/Users/welcome/AppData/Local/Programs/Python/Python311/POAIexp2.py  
DFS Path from A to F: ['A', 'B', 'E', 'F']  
>>> |
```