```
VLetters = ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H']

V = [0] * 8

E = [
        [0, 4, 1], # 'A' - 'E'
        [0, 7, 1], # 'A' - 'H'
        [1, 0, 1], # 'B' - 'A'
        [2, 5, 1], # 'C' - 'F'
        [2, 6, 1], # 'C' - 'G'
        [3, 0, 1], # 'D' - 'A'
        [3, 4, 1], # 'D' - 'E'
        [4, 2, 1], # 'E' - 'C'
        [5, 3, 1], # 'F' - 'D'
        [5, 4, 1], # 'G' - 'B'
        [6, 4, 1], # 'G' - 'E'
        [7, 3, 1] # 'H' - 'D'

]
```

• dregan17@Danny-Mac Week 4 % /opt/homebrew/bin/python3 "/Users/dregan17/Desktop/MC Code/6013 Algorithms and Discrete Structures/Week 4/inClassExercise.py" Vertex A visited and received the stamp 0 DFS called for vertex A Current array: [0, 'B', 'C', 'D', 'E', 'F', 'G', 'H'] Vertex E visited and received the stamp 1 DFS called for vertex E Current array: [0, 'B', 'C', 'D', 1, 'F', 'G', 'H'] Vertex C visited and received the stamp 2 DFS called for vertex C Current array: [0, 'B', 2, 'D', 1, 'F', 'G', 'H'] Vertex F visited and received the stamp 3 DFS called for vertex F Current array: [0, 'B', 2, 'D', 1, 3, 'G', 'H'] Vertex D visited and received the stamp 4 DFS called for vertex D Current array: [0, 'B', 2, 4, 1, 3, 'G', 'H'] Vertex G visited and received the stamp 5 DFS called for vertex G Current array: [0, 'B', 2, 4, 1, 3, 5, 'H'] Vertex B visited and received the stamp 6 DFS called for vertex B Current array: [0, 6, 2, 4, 1, 3, 5, 'H'] Vertex H visited and received the stamp 7 DFS called for vertex H Current array: [0, 6, 2, 4, 1, 3, 5, 7]