12/6/2020 Untitled9

implement bfs with the input of graph and the goal node to be searched, your output will show the path from the root node to goal node only

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In [1]: | graph = {'A': ['B','C'],
                   'B': ['A','D','E'],
                   'C': ['F','G','A'],
                   'D': ['B'],
                   'E': ['H', 'B'],
                   'F': ['C'],
                   'G': ['C'],
                  'H': ['E']
In [2]: def dfs(graph, start, end, route, list):
             route+=[start]
             if start == end:
                 list.extend(route)
             else:
                 for node in graph[start]:
                      if node not in route:
                          dfs(graph, node, end, route, list)
         def dfs_route(graph, start, end):
             list = []
             dfs(graph,start,end,[],list)
             return list
         print(dfs_route(graph, 'A', 'G'))
         ['A', 'B', 'D', 'E', 'H', 'C', 'F', 'G']
```

In []: