import queue as Q

from RMP import dict\_gn

start='Arad'

goal='Bucharest'

result=''

def DLS(city, visitedstack, startlimit, endlimit):

global result

found=0

result=result+city+' '

visitedstack.append(city)

if city==goal:

return 1

if startlimit==endlimit:

return 0

for eachcity in dict\_gn[city].keys():

if eachcity not in visitedstack:

found=DLS(eachcity, visitedstack, startlimit+1, endlimit)

if found:

return found

def IDDFS(city, visitedstack, endlimit):

global result

for i in range(0, endlimit):

print("Searching at Limit: ",i)

found=DLS(city, visitedstack, 0, i)

if found:

print("Found")

break

else:

print("Not Found! ")

print(result)

print("-----")

result=' '

visitedstack=[]

def main():

visitedstack=[]

IDDFS(start, visitedstack, 9)

print("IDDFS Traversal from ",start," to ", goal," is: ")

print(result)

main()

"""

OUTPUT:

Searching at Limit: 0

Not Found!

Arad

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Searching at Limit: 1

Not Found!

Arad Zerind Sibiu Timisoara

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Searching at Limit: 2

Not Found!

Arad Zerind Oradea Sibiu Rimnicu Fagaras Timisoara Lugoj

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Searching at Limit: 3

Not Found!

Arad Zerind Oradea Sibiu Timisoara Lugoj Mehadia

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Searching at Limit: 4

Not Found!

Arad Zerind Oradea Sibiu Rimnicu Fagaras Timisoara Lugoj Mehadia Drobeta

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Searching at Limit: 5

Found

IDDFS Traversal from Arad to Bucharest is:

Arad Zerind Oradea Sibiu Rimnicu Pitesti Craiova Fagaras Bucharest

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