Naveenkumars-MacBook-Pro:src naveenkumar2703\$ clear

```
Naveenkumars-MacBook-Pro:src naveenkumar2703$ python aihw1.py
Enter city 1: arad
Enter city 2: bucharest
Choose a search method: bfs or dfs or ids
```

```
bfs
Calling:bfs algorithm
bucharest
arad, sibiu, fagaras, bucharest, - 450
Naveenkumars-MacBook-Pro:src naveenkumar2703$ python
aihw1.pv
Enter city 1:
sibiu
Enter city 2:
eforie
Choose a search method: bfs or dfs or ids
bfs
Calling:bfs algorithm
eforie
sibiu, fagaras, bucharest, urziceni, hirsova, eforie, -
579
Naveenkumars-MacBook-Pro:src naveenkumar2703$ python
aihw1.py
Enter city 1:
drobeta
Enter city 2:
fagaras
Choose a search method: bfs or dfs or ids
bfs
Calling:bfs algorithm
fagaras
drobeta, craiova, pitesti, bucharest, fagaras, - 570
Naveenkumars-MacBook-Pro:src naveenkumar2703$ python
aihw1.py
Enter city 1:
arad
Enter city 2:
bucharest
Choose a search method: bfs or dfs or ids
ids
Calling:ids algorithm
Enter limit for iterative depth search:
arad, sibiu, rimnicu vilcea, pitesti, bucharest, - 418
Naveenkumars-MacBook-Pro:src naveenkumar2703$ python
aihw1.py
Enter city 1:
sibiu
```

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Enter city 2:
eforie
Choose a search method: bfs or dfs or ids
Calling:ids algorithm
Enter limit for iterative depth search:
sibiu, rimnicu vilcea, craiova, pitesti, bucharest,
urziceni, hirsova, eforie, - 734
Naveenkumars-MacBook-Pro:src naveenkumar2703$ python
aihw1.py
Enter city 1:
drobeta
Enter city 2:
fagaras
Choose a search method: bfs or dfs or ids
ids
Calling:ids algorithm
Enter limit for iterative depth search:
25
drobeta, mehadia, lugoj, timisoara, arad, zerind, oradea,
sibiu, arad, zerind, oradea, sibiu, arad, zerind, oradea,
sibiu, arad, zerind, oradea, sibiu, arad, zerind, oradea,
sibiu, fagaras, - 2518
Naveenkumars-MacBook-Pro:src naveenkumar2703$ python
aihw1.py
Enter city 1:
arad
Enter city 2:
bucharest
Choose a search method: bfs or dfs or ids
dfs
Calling:dfs algorithm
Traceback (most recent call last):
  File "aihw1.py", line 109, in <module>
    finder.searchRoute()
  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
Depth_First_Finder.py", line 17, in searchRoute
    destination = self.explore child nodes(origin node)
  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
Depth_First_Finder.py", line 34, in explore_child_nodes
    return self.explore child nodes(option node)
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File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
Depth_First_Finder.py", line 34, in explore_child_nodes
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  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
Depth_First_Finder.py", line 29, in explore_child_nodes
    option node =
location(option,node,self.distance directory)
  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
location.py", line 5, in __init__
    self.next location names =
get next location names(city,prev city,route dict)
  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
location.py", line 15, in get_next_location_names
    nxt_city_lst.append(get_other_city(dist, currentcity))
  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
location.py", line 24, in get_other_city
```

```
if distance.city1 == currentcity:
RuntimeError: maximum recursion depth exceeded in cmp
Naveenkumars-MacBook-Pro:src naveenkumar2703$ python
aihw1.py
Enter city 1:
sibiu
Enter city 2:
eforie
Choose a search method: bfs or dfs or ids
dfs
Calling:dfs algorithm
Traceback (most recent call last):
  File "aihw1.py", line 109, in <module>
    finder.searchRoute()
  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
Depth_First_Finder.py", line 17, in searchRoute
    destination = self.explore_child_nodes(origin_node)
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Depth_First_Finder.py", line 29, in explore_child_nodes
    option node =
location(option,node,self.distance directory)
  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
location.py", line 5, in __init__
    self.next location names =
get_next_location_names(city,prev_city,route_dict)
  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
location.py", line 15, in get_next_location names
    nxt city lst.append(get other city(dist, currentcity))
  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
location.py", line 24, in get_other_city
    if distance.city1 == currentcity:
RuntimeError: maximum recursion depth exceeded in cmp
Naveenkumars-MacBook-Pro:src naveenkumar2703$ python
aihw1.py
Enter city 1:
drobeta
Enter city 2:
fagaras
Choose a search method: bfs or dfs or ids
dfs
Calling:dfs algorithm
Traceback (most recent call last):
  File "aihw1.py", line 109, in <module>
    finder.searchRoute()
  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
Depth_First_Finder.py", line 17, in searchRoute
    destination = self.explore_child_nodes(origin_node)
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Depth_First_Finder.py", line 34, in explore_child_nodes
    return self.explore_child_nodes(option_node)
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```

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  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
Depth_First_Finder.py", line 29, in explore_child_nodes
    option node =
location(option,node,self.distance directory)
  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
location.py", line 5, in __init__
    self.next location names =
get next location names(city,prev city,route dict)
  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
location.py", line 15, in get_next_location_names
    nxt city lst.append(get other city(dist, currentcity))
  File "/Users/naveenkumar2703/Documents/Dirty/AI/PA1/src/
location.py", line 24, in get_other city
    if distance.city1 == currentcity:
RuntimeError: maximum recursion depth exceeded in cmp
Naveenkumars-MacBook-Pro:src naveenkumar2703$
```