

Test 1:
from National Yang Ming Chiao Tung University (ID: 2270143902)
to Big City Shopping Mall (ID: 1079387396)

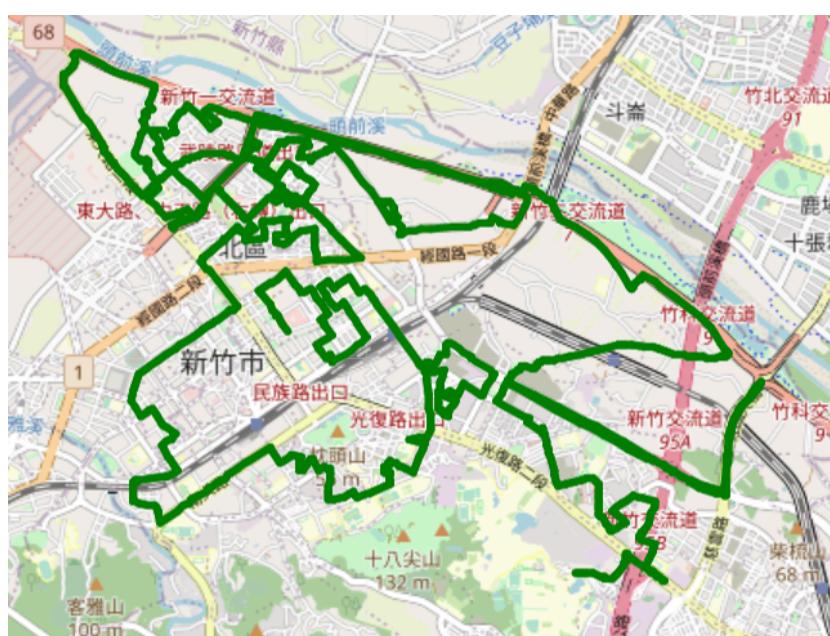
BFS:

The number of nodes in the path found by BFS: 88
Total distance of path found by BFS: 4978.8820000000005 m
The number of visited nodes in BFS: 4273



DFS(stack):

The number of nodes in the path found by DFS: 1232
Total distance of path found by DFS: 57208.987000000045 m
The number of visited nodes in DFS: 4210



DFS(recursive):

The number of nodes in the path found by DFS: 1311

Total distance of path found by DFS: 48954.32100000007 m

The number of visited nodes in DFS: 3518

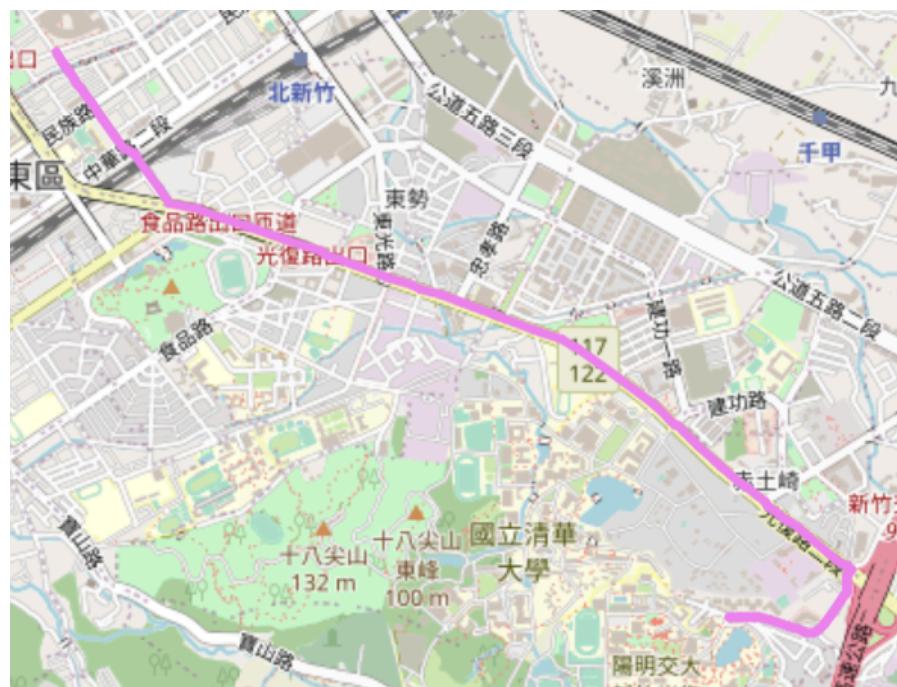


UCS:

The number of nodes in the path found by UCS: 89

Total distance of path found by UCS: 4367.881 m

The number of visited nodes in UCS: 5231



A*:

The number of nodes in the path found by A* search: 89

Total distance of path found by A* search: 4367.881 m

The number of visited nodes in A* search: 261



Part 6 A*(time):

The number of nodes in the path found by A* search: 89

Total second of path found by A* search: 320.87823163083164 s

The number of visited nodes in A* search: 248



Test 2:
from Hsinchu Zoo (ID: 426882161)
to COSTCO Hsinchu Store (ID: 1737223506)

BFS:

The number of nodes in the path found by BFS: 60

Total distance of path found by BFS: 4215.521 m

The number of visited nodes in BFS: 4606



DFS(stack):

The number of nodes in the path found by DFS: 998

Total distance of path found by DFS: 41094.657999999992 m

The number of visited nodes in DFS: 8030



DFS(recursive):

The number of nodes in the path found by DFS: 1016

Total distance of path found by DFS: 43504.76899999994 m

The number of visited nodes in DFS: 10622



UCS:

The number of nodes in the path found by UCS: 63

Total distance of path found by UCS: 4101.84 m

The number of visited nodes in UCS: 7453



A*:

The number of nodes in the path found by A* search: 63

Total distance of path found by A* search: 4101.84 m

The number of visited nodes in A* search: 1244

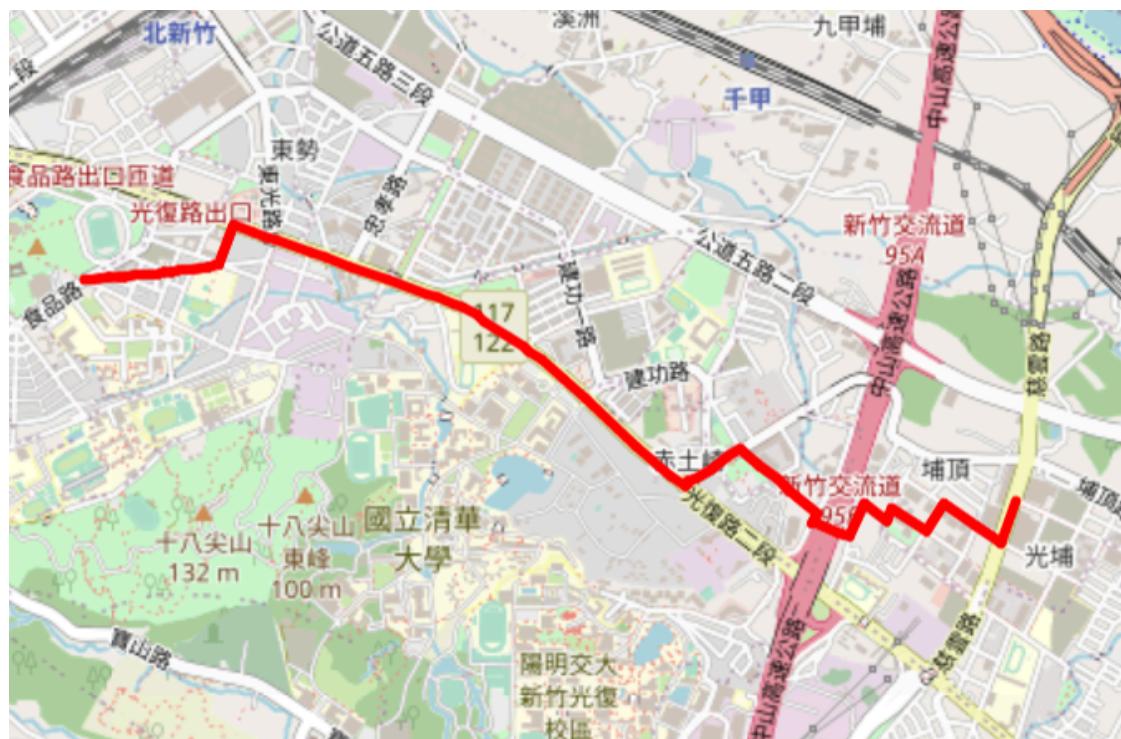


Part 6 A*(time):

The number of nodes in the path found by A* search: 63

Total second of path found by A* search: 307.9004554360302 s

The number of visited nodes in A* search: 1159



Test 3:

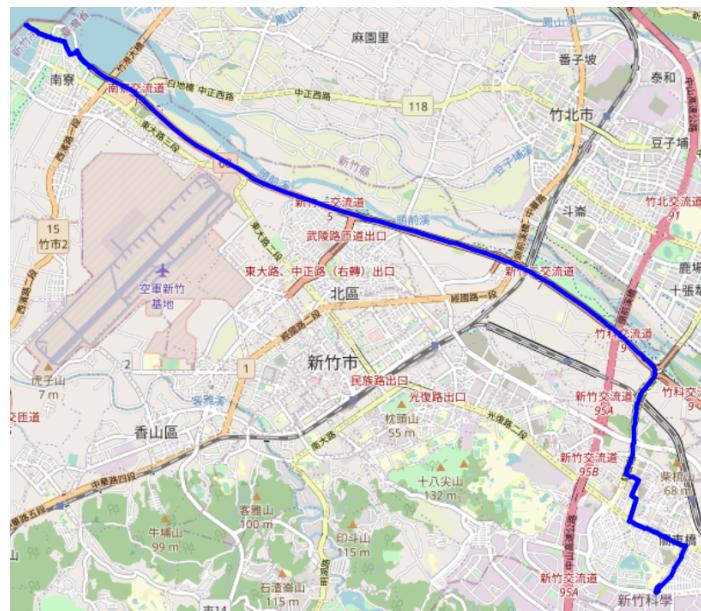
**from National Experimental High School At Hsinchu Science Park (ID: 1718165260)
to Nanliao Fishing Port (ID: 8513026827)**

BFS:

The number of nodes in the path found by BFS: 183

Total distance of path found by BFS: 15442.395000000002 m

The number of visited nodes in BFS: 11241

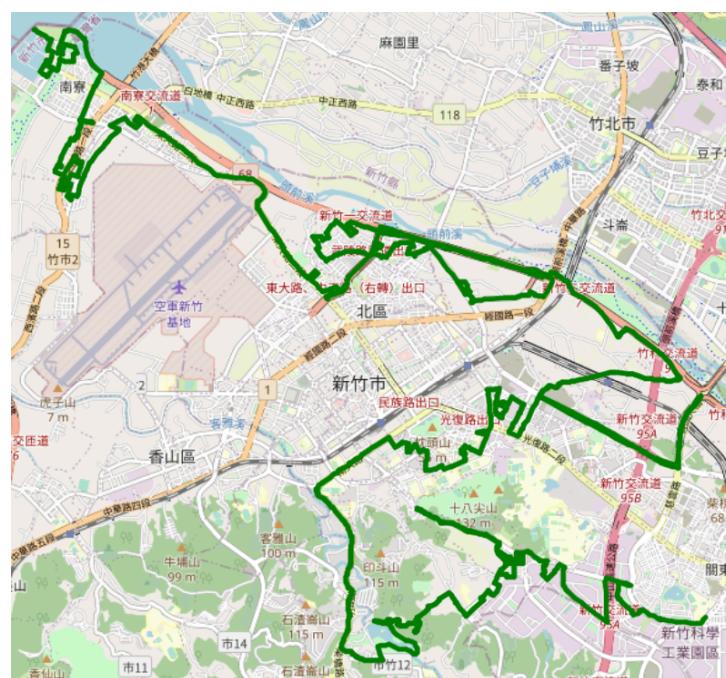


DFS(stack):

The number of nodes in the path found by DFS: 1521

Total distance of path found by DFS: 64821.60399999987 m

The number of visited nodes in DFS: 3291

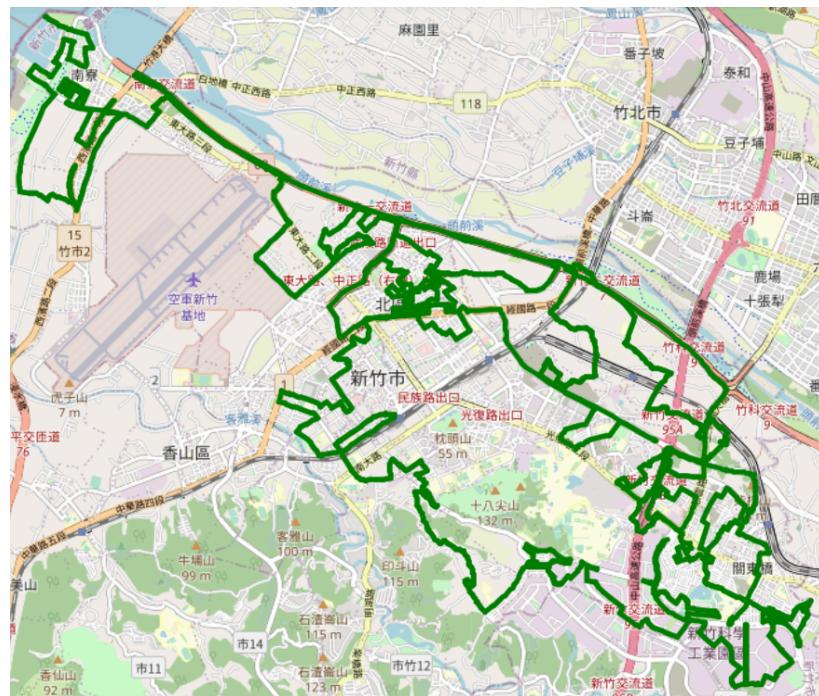


DFS(recursive):

The number of nodes in the path found by DFS: 2635

Total distance of path found by DFS: 120440.44299999984 m

The number of visited nodes in DFS: 7517

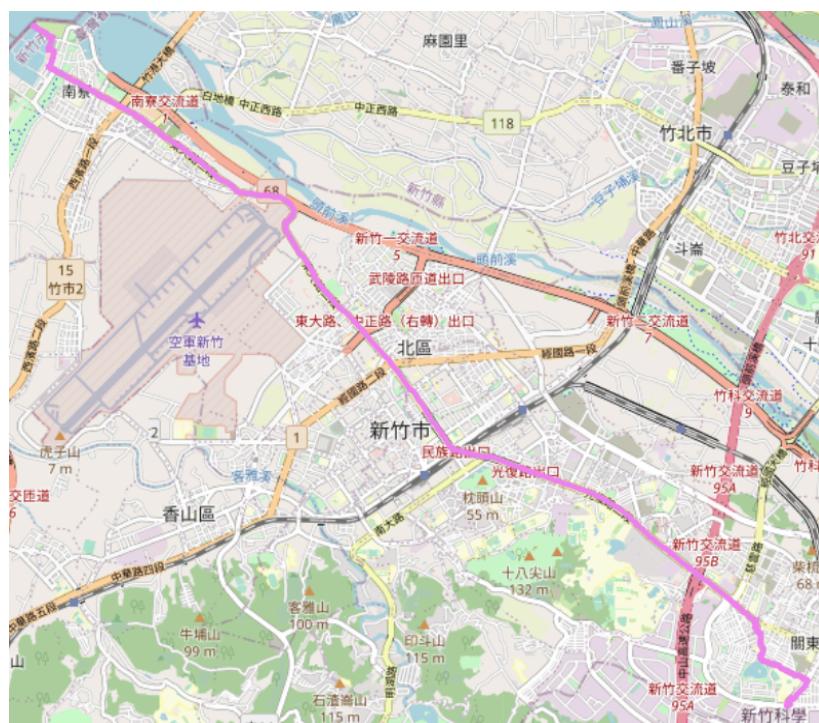


UCS:

The number of nodes in the path found by UCS: 288

Total distance of path found by UCS: 14212.412999999997 m

The number of visited nodes in UCS: 12311

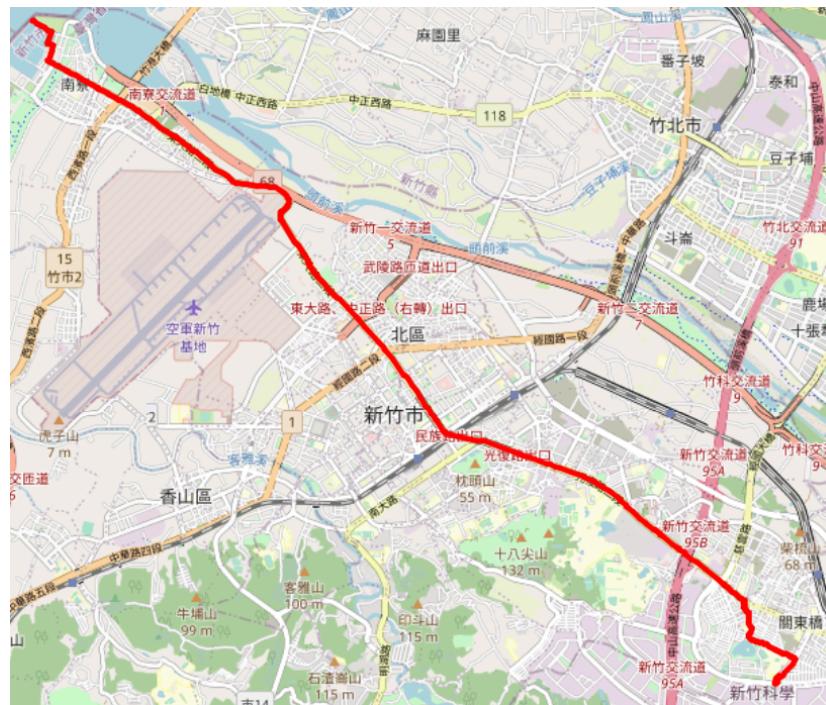


A*:

The number of nodes in the path found by A* search: 288

Total distance of path found by A* search: 14212.412999999997 m

The number of visited nodes in A* search: 7570



Part 6 A*(time) (Test3 超過1000秒Bonus就算0分):

The number of nodes in the path found by A* search: 322

Total second of path found by A* search: 897.5594680211443 s

The number of visited nodes in A* search: 4093



- BFS結果的 "number of nodes in the path" 須與測試結果相同
- UCS, A* 結果的“distance of path” 須與測試結果相同
- Part6 (Bonus) 的admissible heuristic function可以自行設計, 但要保證heuristic function is admissible