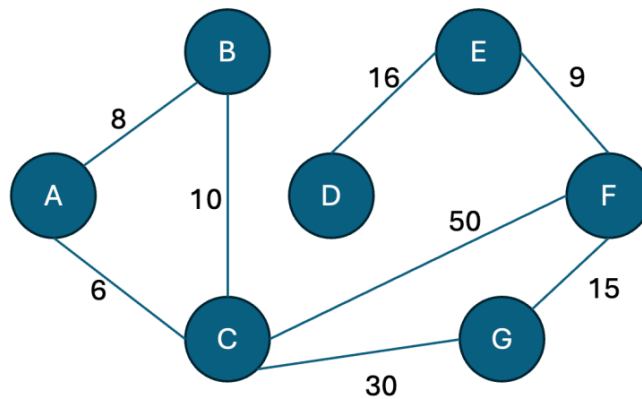


Homework 1

October 18, 2024

Problem 1



Task 1.1

由 BFS 算法，我们可以得到，从 A 点到 D 点的路径为：A, C, F, E, D,

$$\text{cost} = 6 + 50 + 9 + 16 = 81$$

Task 1.2

由 DFS 算法可得，从 A 点到 D 点的路径为：A, C, G, F, E, D,

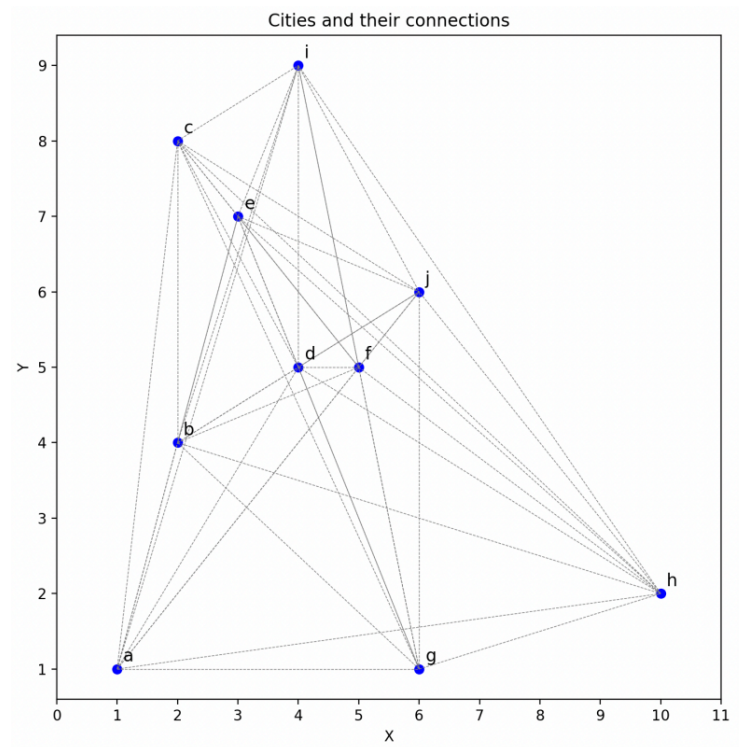
$$\text{cost} = 6 + 30 + 15 + 9 + 16 = 76$$

Task 1.3

由 UCS 算法可得，从 A 点到 D 点的路径为：A, C, G, F, E, D,

$$\text{cost} = 6 + 30 + 15 + 9 + 16 = 76$$

Problem 2



Task 2.1