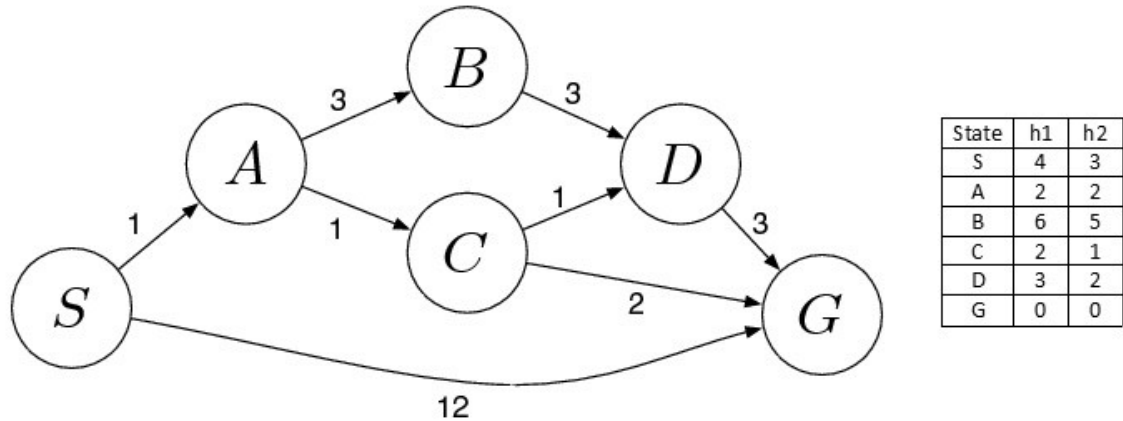# Searching for problem solving-Lab Work (Mark 10):

1. Explore example source code for BFS, DFS, Uniform cost search and A* algorithm.

2. Write a python program to solve the following graph search problem.

State	h1	h2
S	4	3
A	2	2
B	6	5
C	2	1
D	3	2
G	0	0

There are 2 heuristics in this problem. You need to identify which heuristic is best for this problem (check if the heuristic is admissible). In your source code identify paths based on both heuristics and compare which heuristic take lesser path. Check if you take h(n) = 0 what will be the outcome?

3. Solve the problem in question 2 using best first search algorithm for both heuristics.