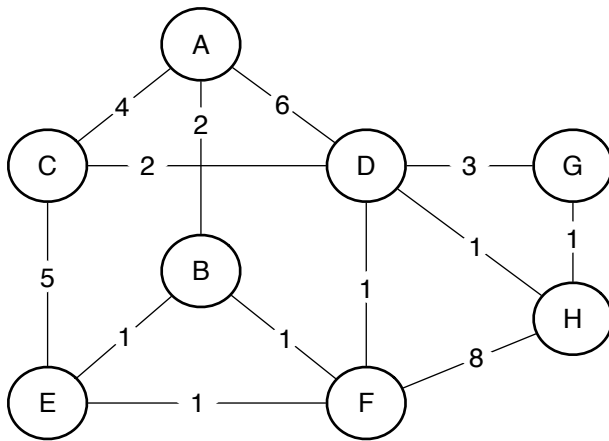


Practice Search Problem

Solve the problem using the Best-First version of the Generic Search algorithm ($f(n) = g(n) + h(n)$) presented in class. For each iteration of the algorithm, indicate the current state and the members of the open list at the end of the iteration. You may not need to use as many iterations as spaces provided.

Assume that A is the initial state and G is the goal state. Assume successors are generated in alphabetical order.



state	$h()$
A	6
B	3
C	4
D	3
E	3
F	4
G	0
H	1

Iteration #1:

Current state: _____

Open list at end of iteration: [_____]

Iteration #2:

Current state: _____

Open list at end of iteration: [_____]

Iteration #3:

Current state: _____

Open list at end of iteration: [_____]

Iteration #4:

Current state: _____

Open list at end of iteration: [_____]

Iteration #5:

Current state: _____

Open list at end of iteration: [_____]

Iteration #6:

Current state: _____

Open list at end of iteration: [_____]

Iteration #7:

Current state: _____

Open list at end of iteration: [_____]

Iteration #8:

Current state: _____

Open list at end of iteration: [_____]

Final solution: _____