

CMSC 341 Homework 6 – Version A

Graphs

Name:

Section:

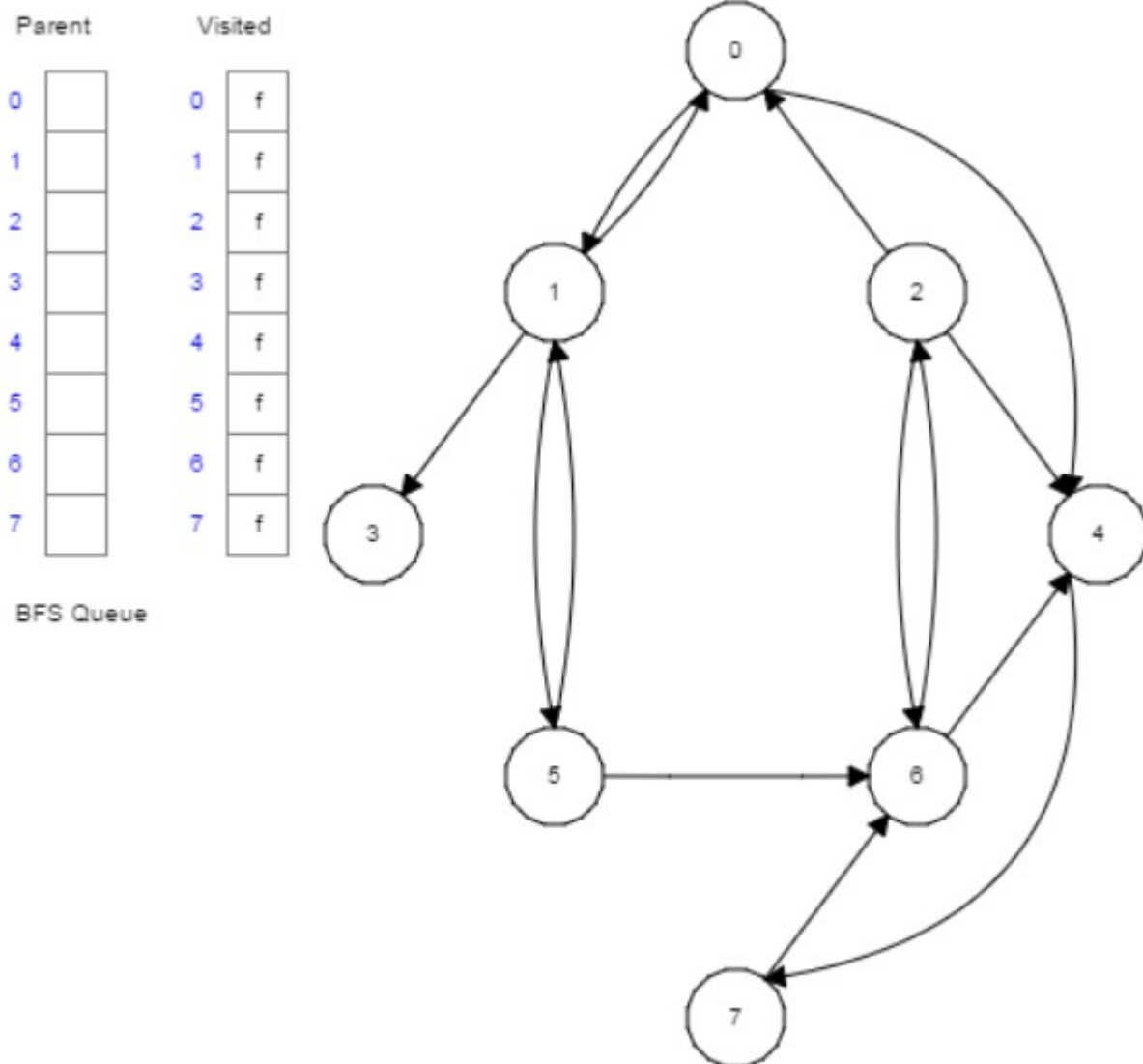
HW #:

Version:

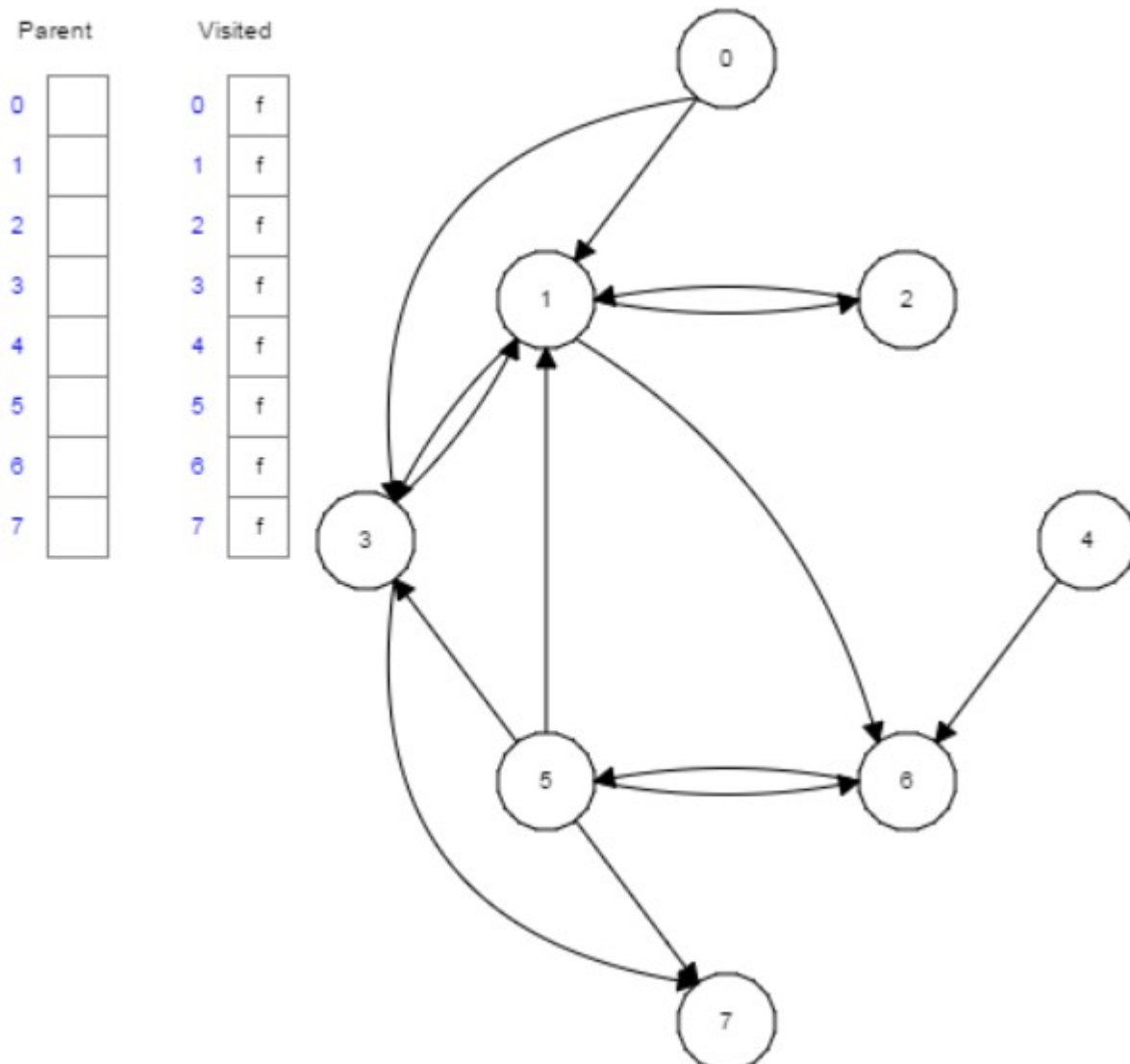
Username:

Please use the before mentioned JFlap to help draw out your answers. All answers require complete work and an explanation of how you got to your answer.

1. Complete the BFS given below. Show EACH step and explain why. Start at Vertex 2.

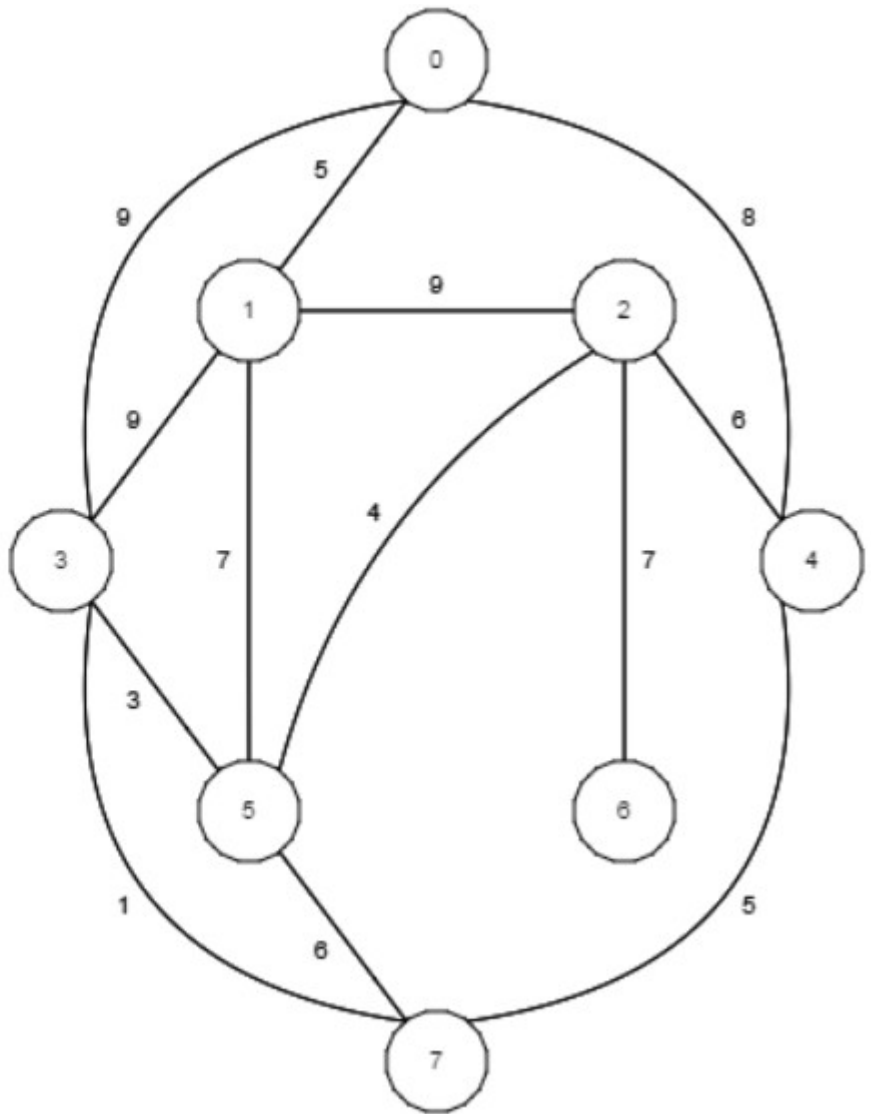


2. Complete the DFS given below. Show EACH step and explain why. Start at Vertex 3.



3. Complete the Dijkstra's Shortest Path algorithm on the graph given below. Show EACH step and explain why. Start at Vertex 1.

Vertex	Known	Cost	Path
0			
1			
2			
3			
4			
5			
6			
7			



4. Complete the Topological sort on the graph given below. Show EACH step and call stack and explain why.

