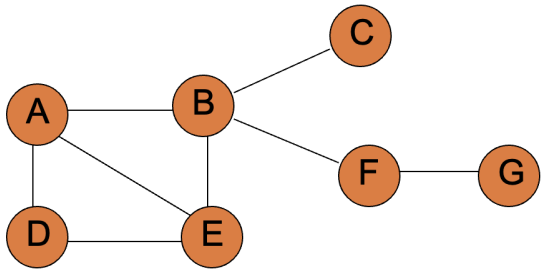
CS62: Spring 2026: Lecture #20 worksheet

1. What order will the vertices be printed out if toVisit is a queue (BFS)? A vertex is "printed" when visited is set to true for that vertex. Assume edges are traversed alphabetically.

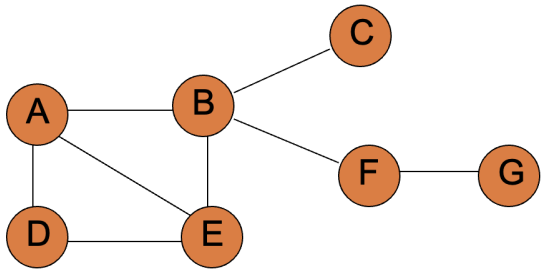
```
graphSearch( toVisit )
    while !toVisit.empty()
        v = toVisit.remove()
        if !visited[v]
            visited[v] = true
            for c in v.getAdjacent()
                if !visited[c]
                    toVisit.add(c)
```



Queue (front): A

2. What order will the vertices be printed out if toVisit is a stack (DFS)? A vertex is "printed" when visited is set to true for that vertex. Assume edges are traversed alphabetically.

```
graphSearch( toVisit )
    while !toVisit.empty()
        v = toVisit.remove()
        if !visited[v]
            visited[v] = true
            for c in v.getAdjacent()
                if !visited[c]
                    toVisit.add(c)
```



A

Stack