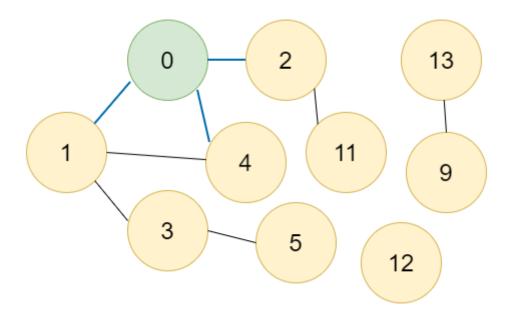
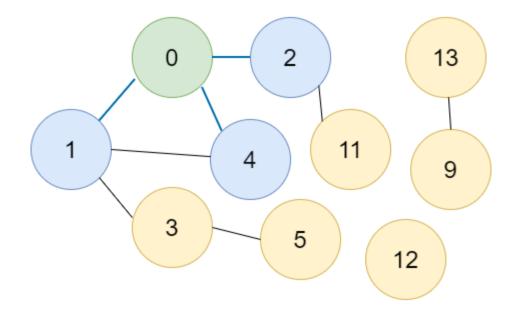
GRAPH TRAVERSAL ALGORITHM: DEPTH FIRST SEARCH (DFS) (WITH STACK)

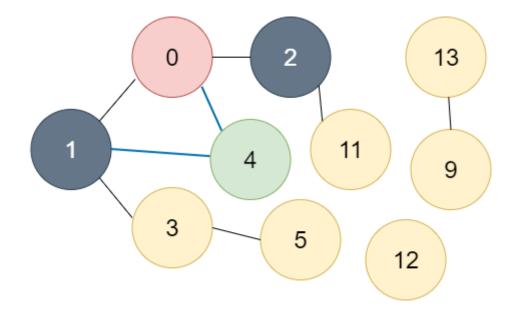




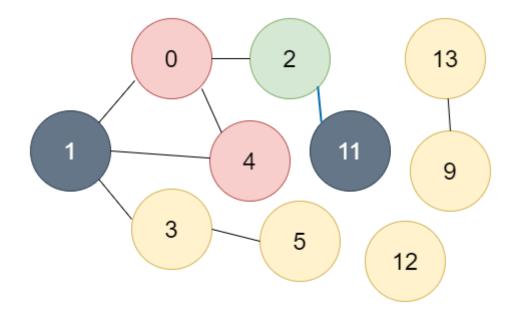
Л

2

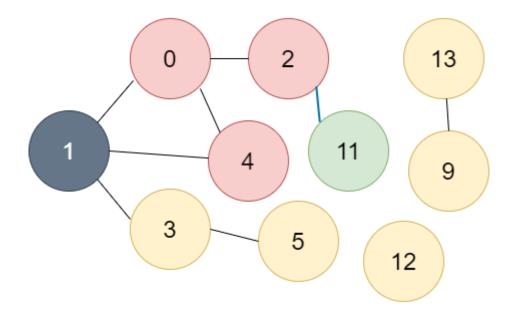
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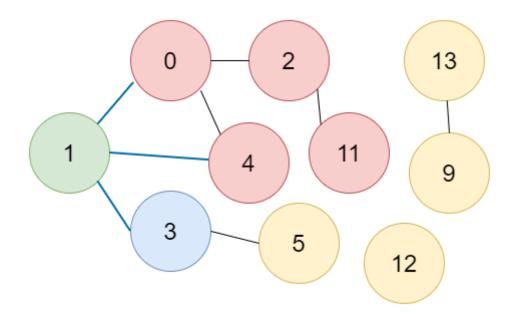


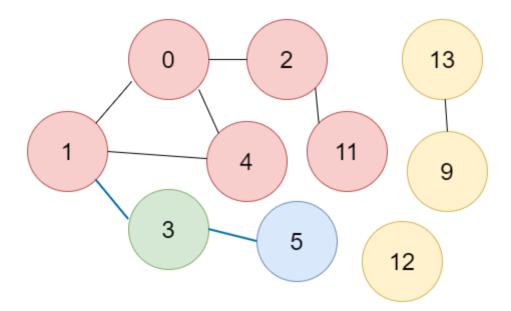
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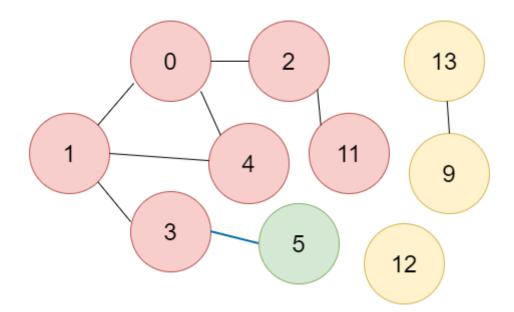


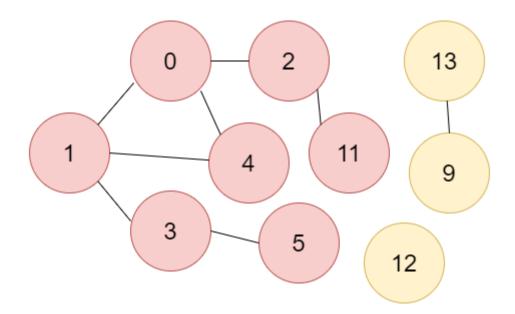
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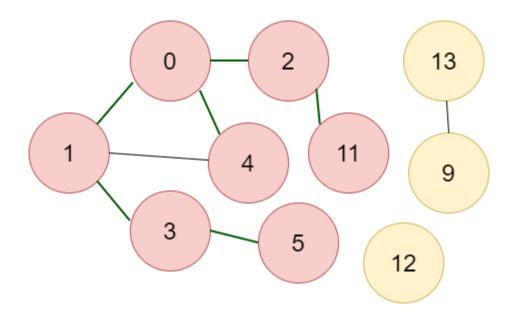












PSEUDO CODE

DFS (Iterative Version)

Input: graph G = (V, E) in adjacency-list representation, and a vertex $s \in V$. **Postcondition:** a vertex is reachable from s if and only if it is marked as "explored."

Complexity: O(V + E)

Image source: T. Roughgarden

NEXT TOPIC?

Breadth First Search (BFS)