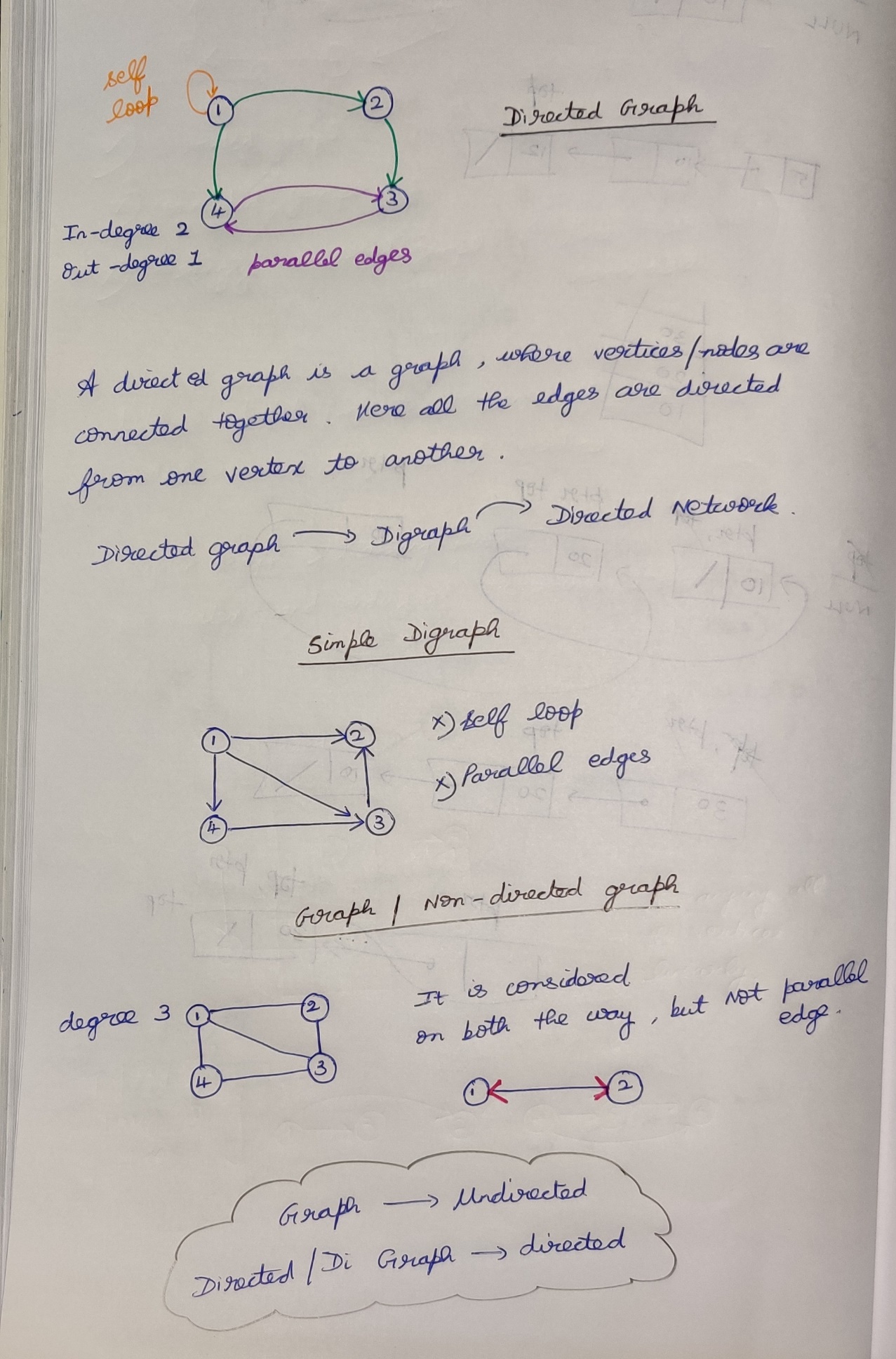
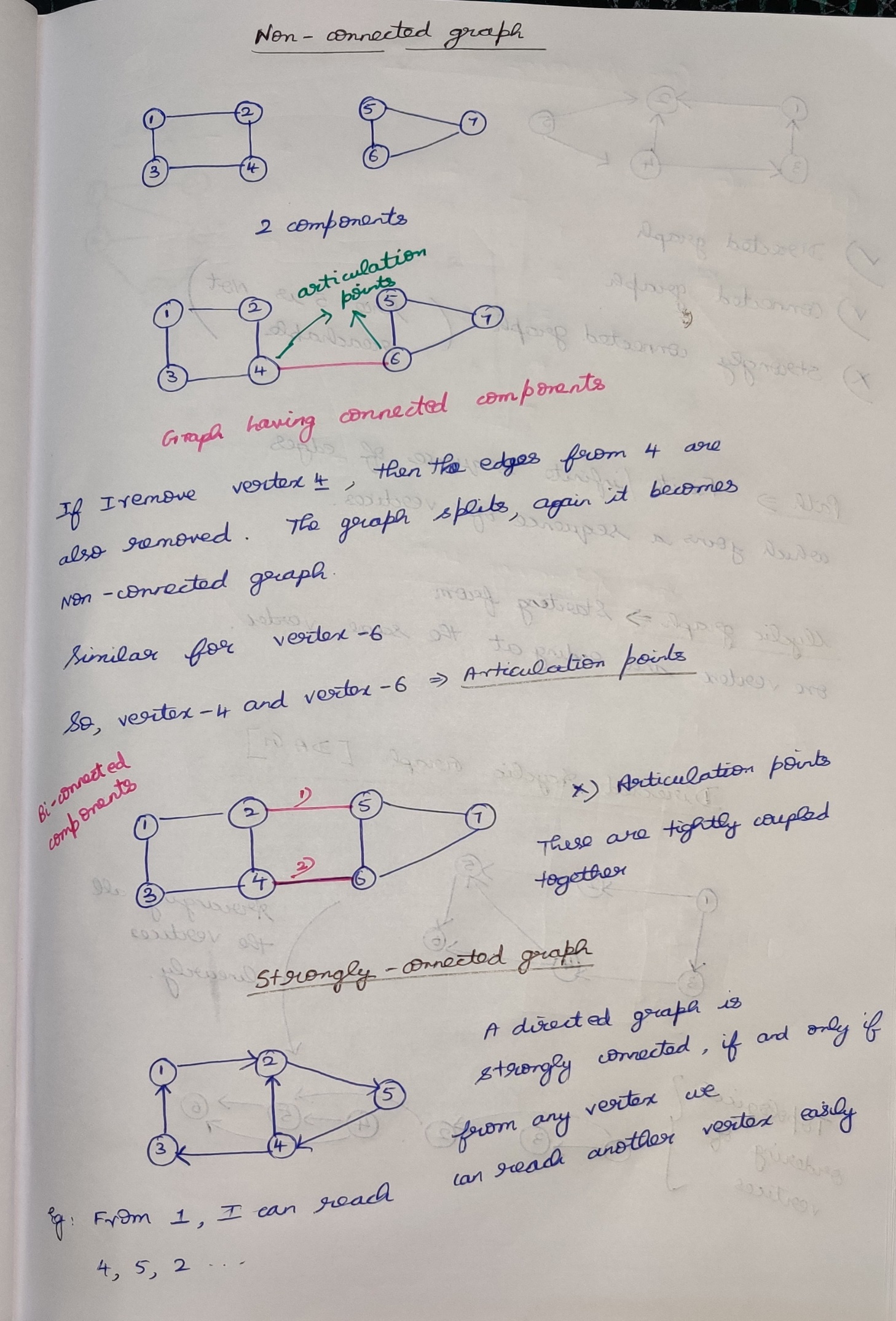
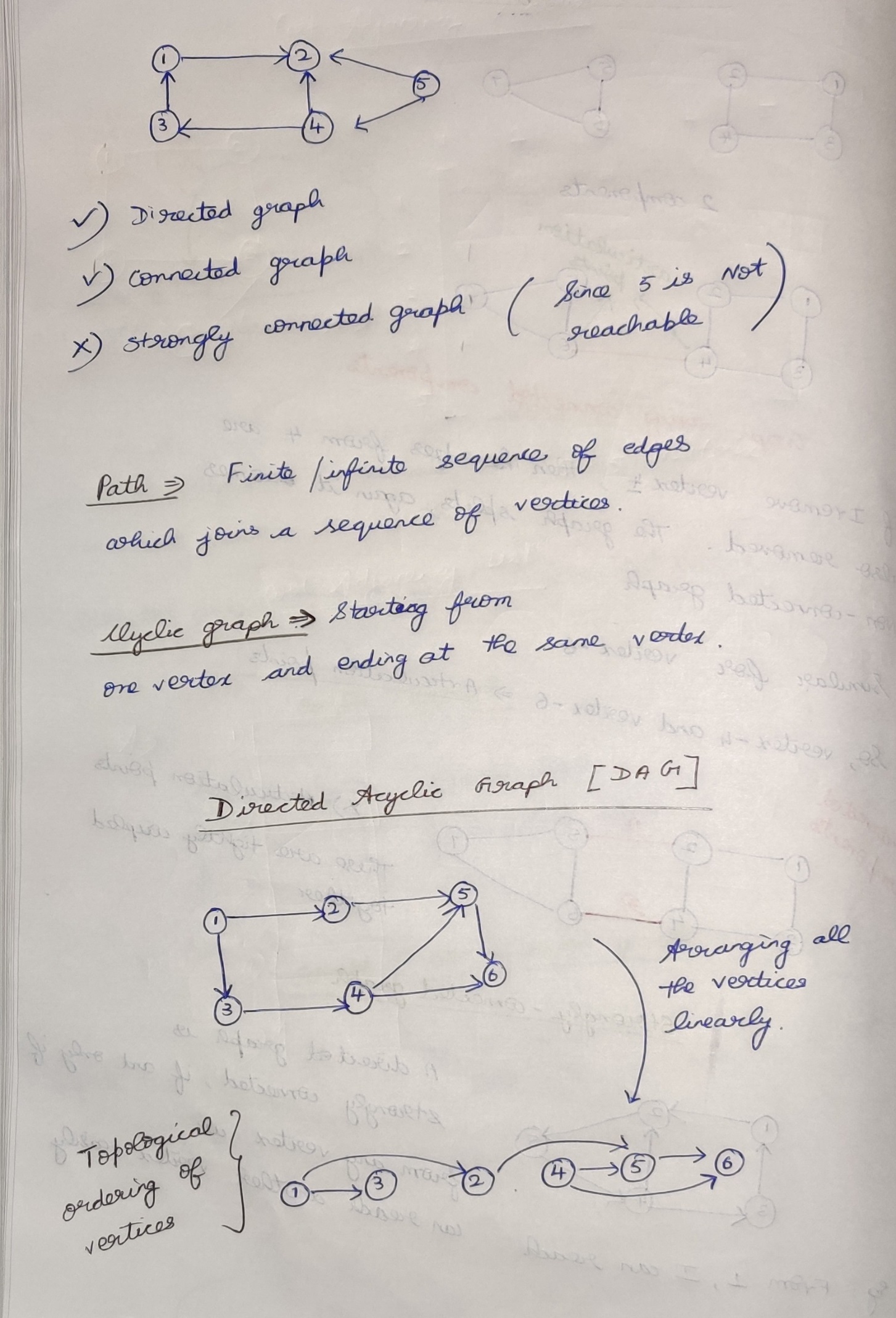
**Introduction to Graphs**

Graph 🡪 Non-linear data structure

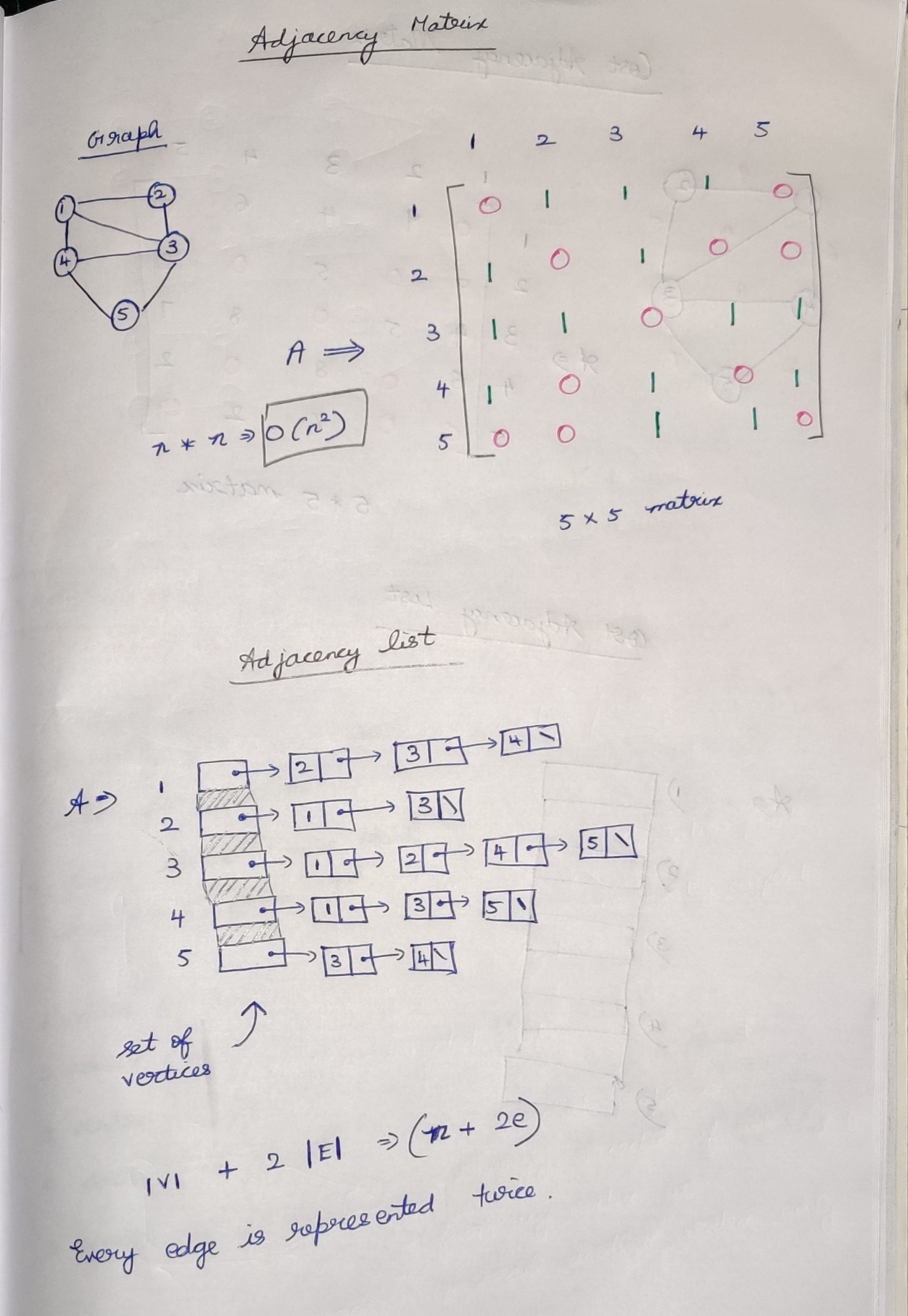


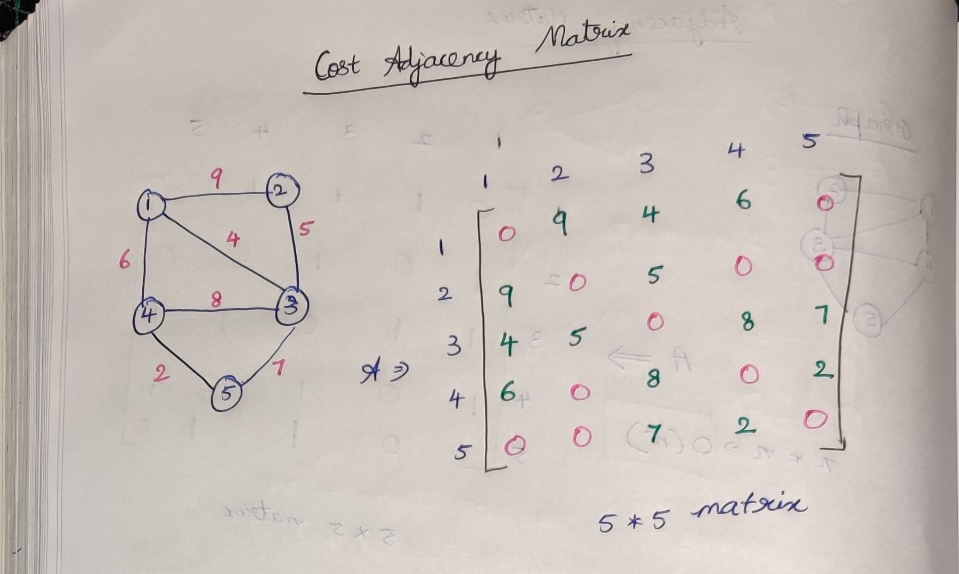




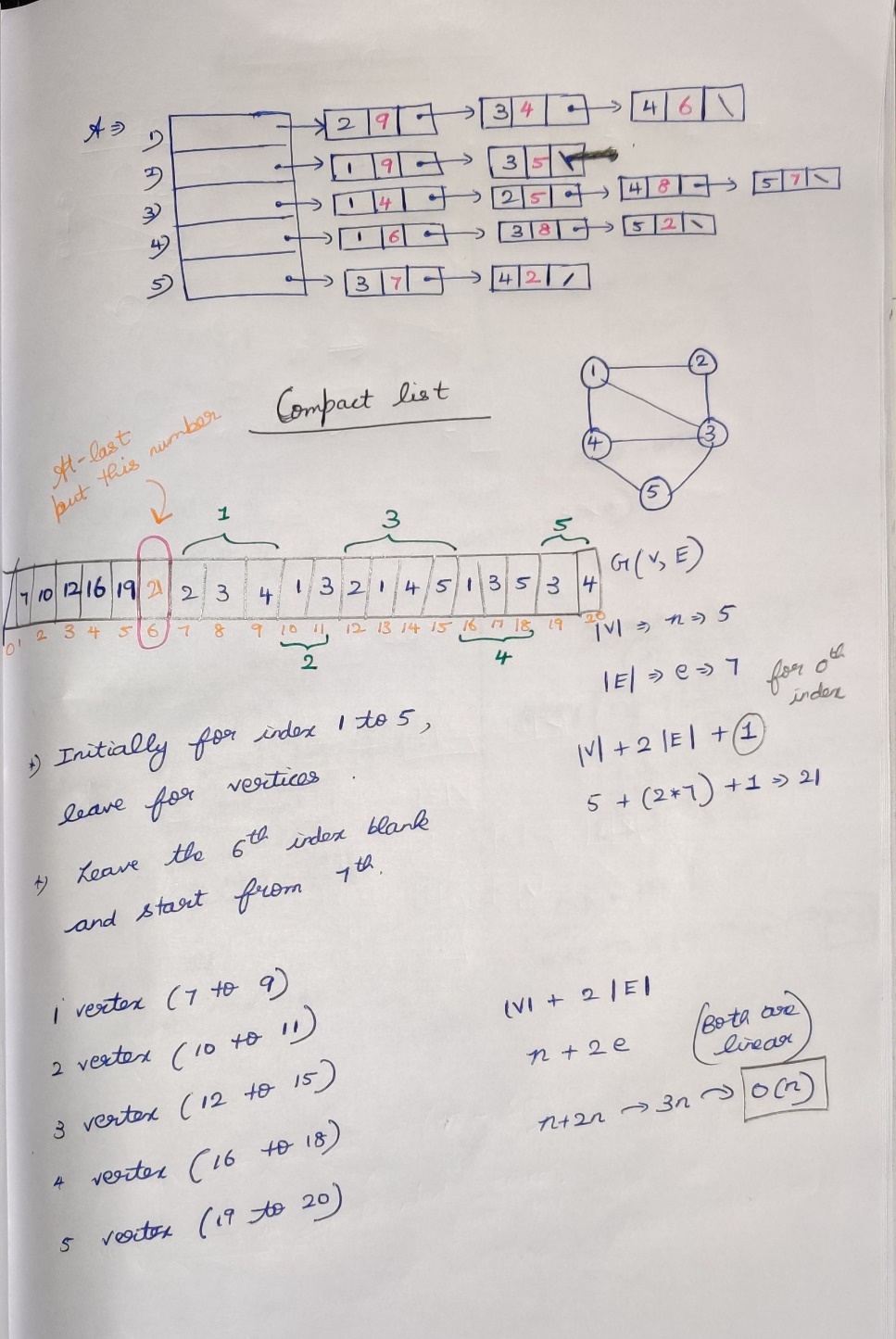
**Representation of Undirected Graph**

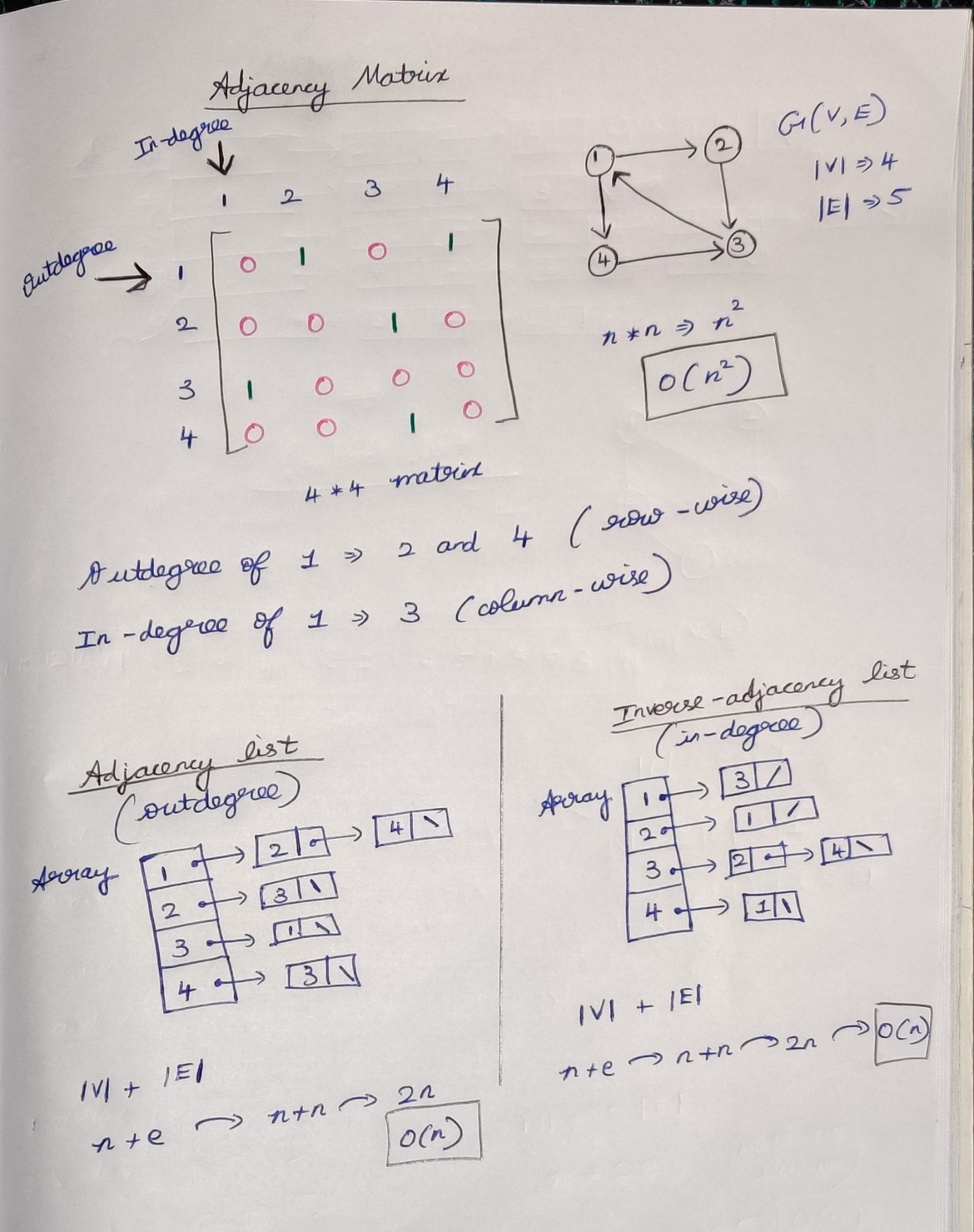
1. Adjacency Matrix
2. Adjacency List
3. Compact List



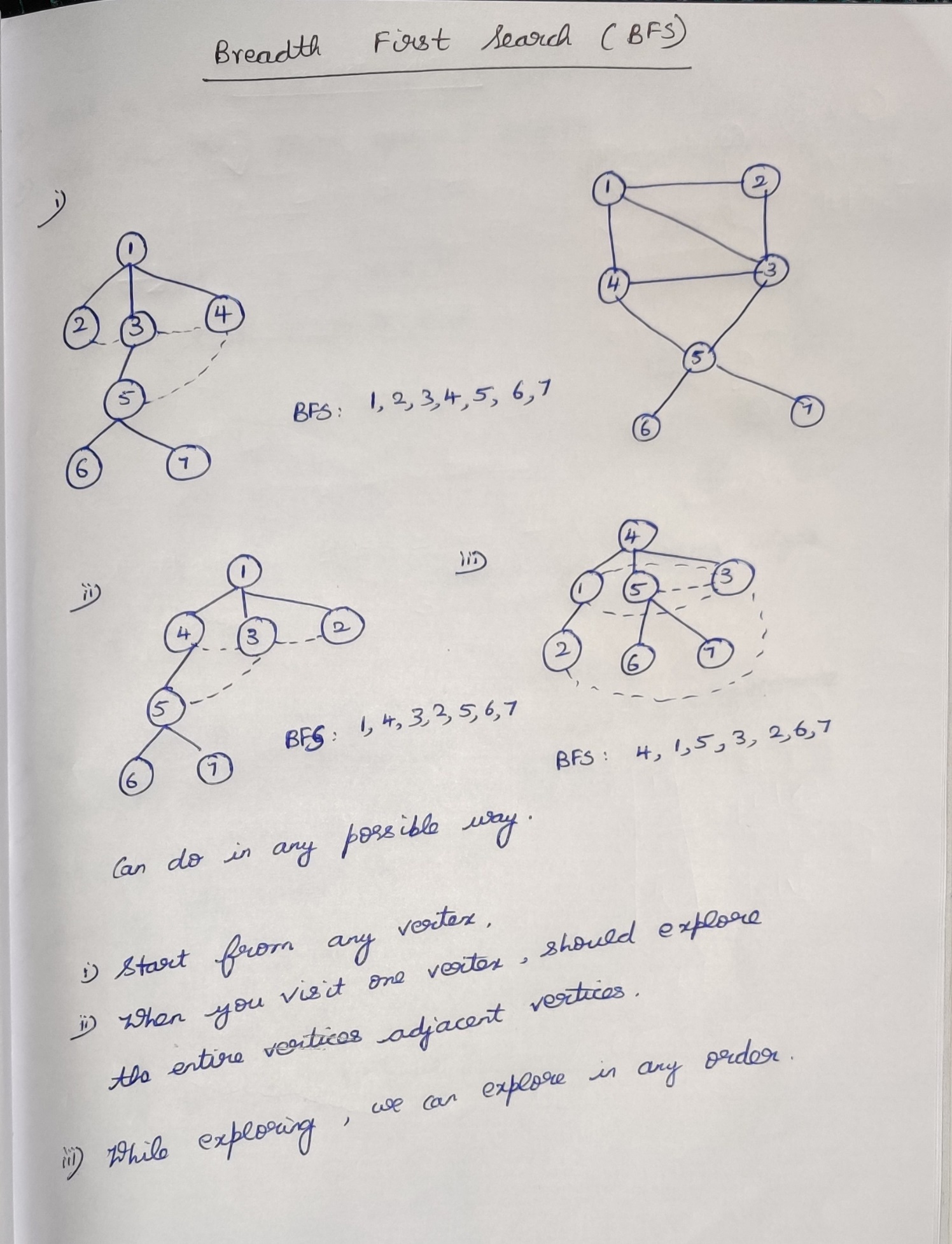


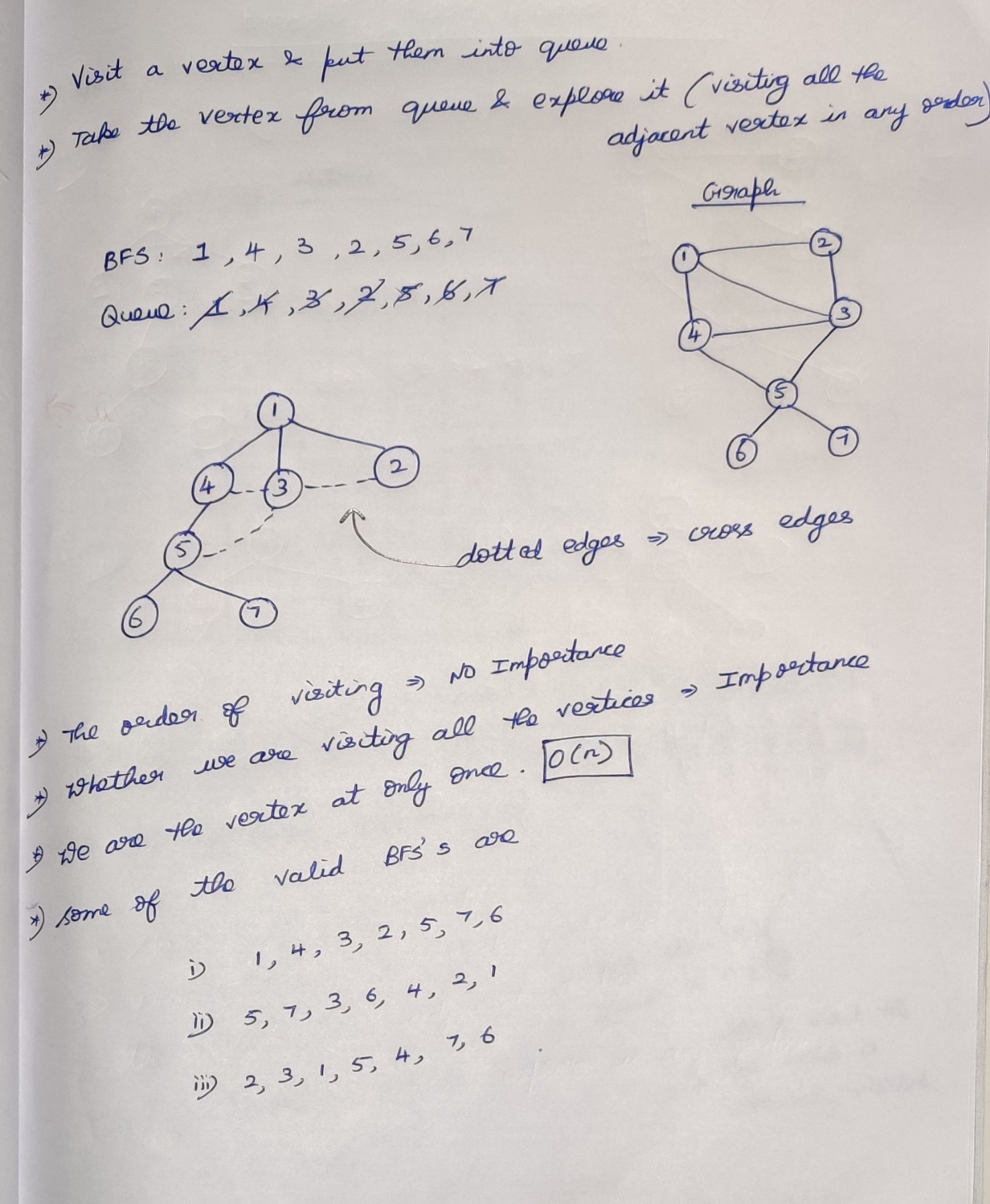
Cost Adjacency List



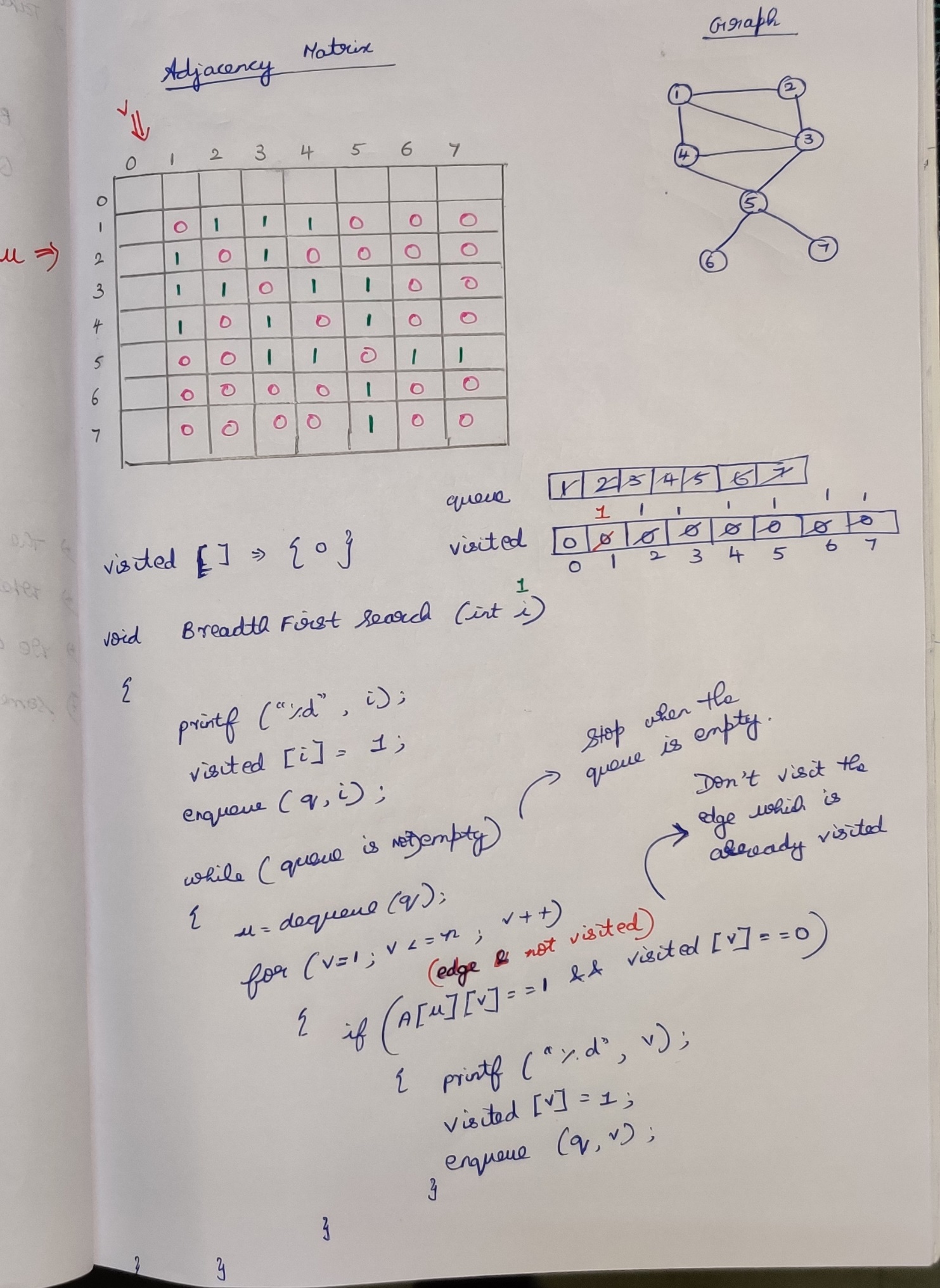


# **Breadth First Search (BFS)**

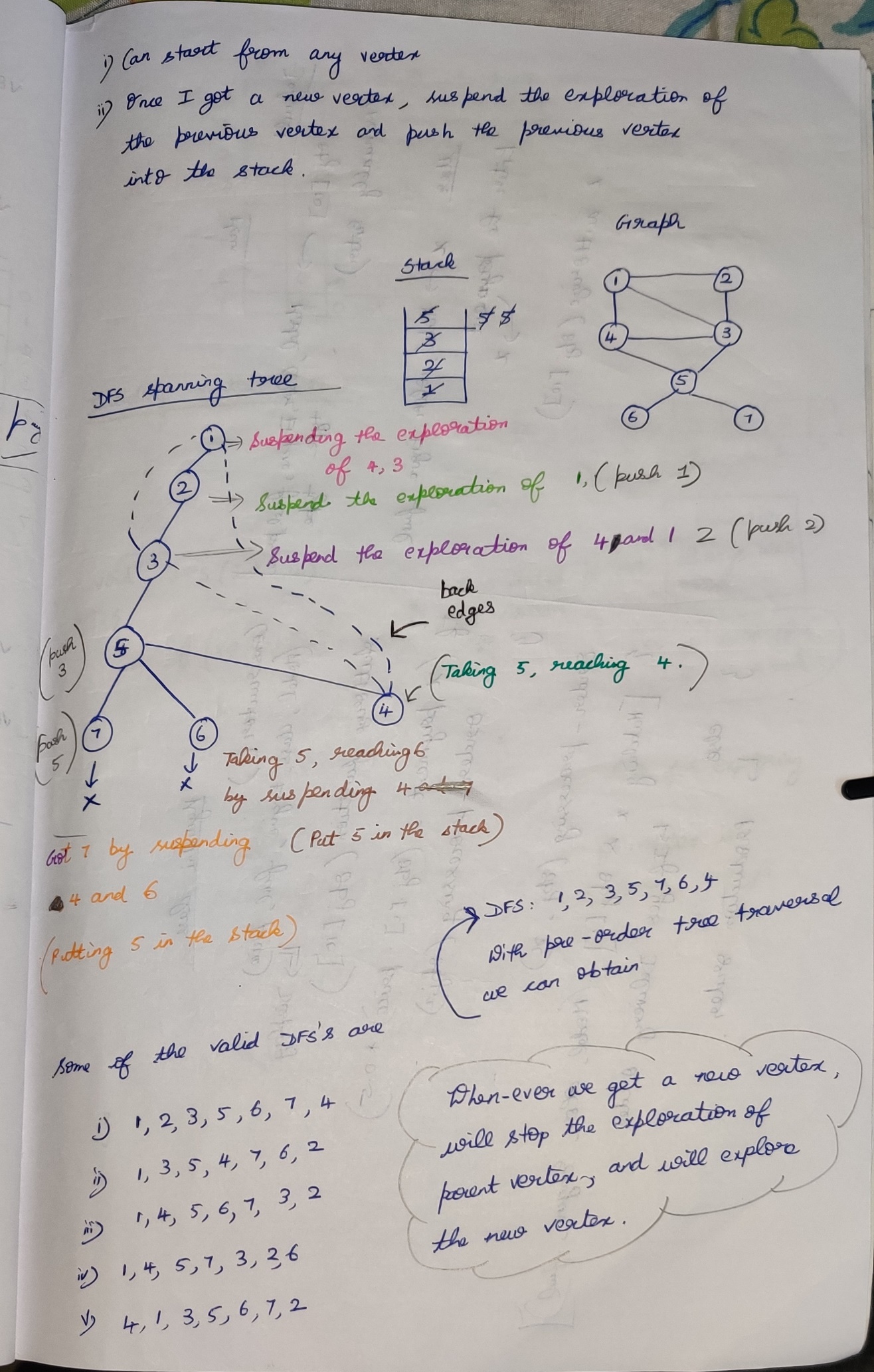




## **Algorithm for Breadth First Search (BFS)**

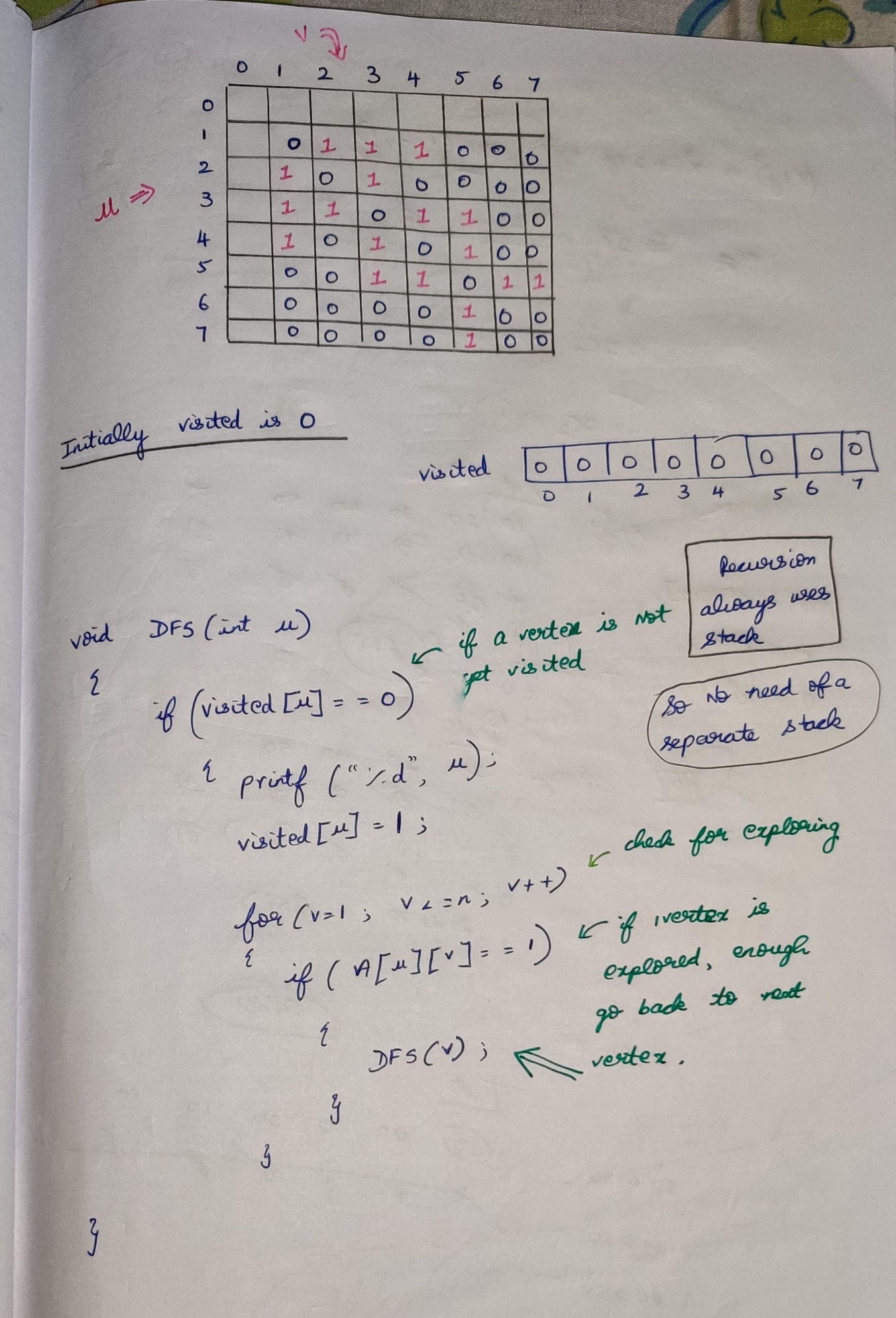


# **Depth First Search (DFS)**



## **Algorithm for Depth First Search (BFS)**

Similar to the pre-order traversal of a binary tree



# **Spanning tree**

## **Minimum cost Spanning tree**

## **Prim’s algorithm**

## **Kruskal’s algorithm**