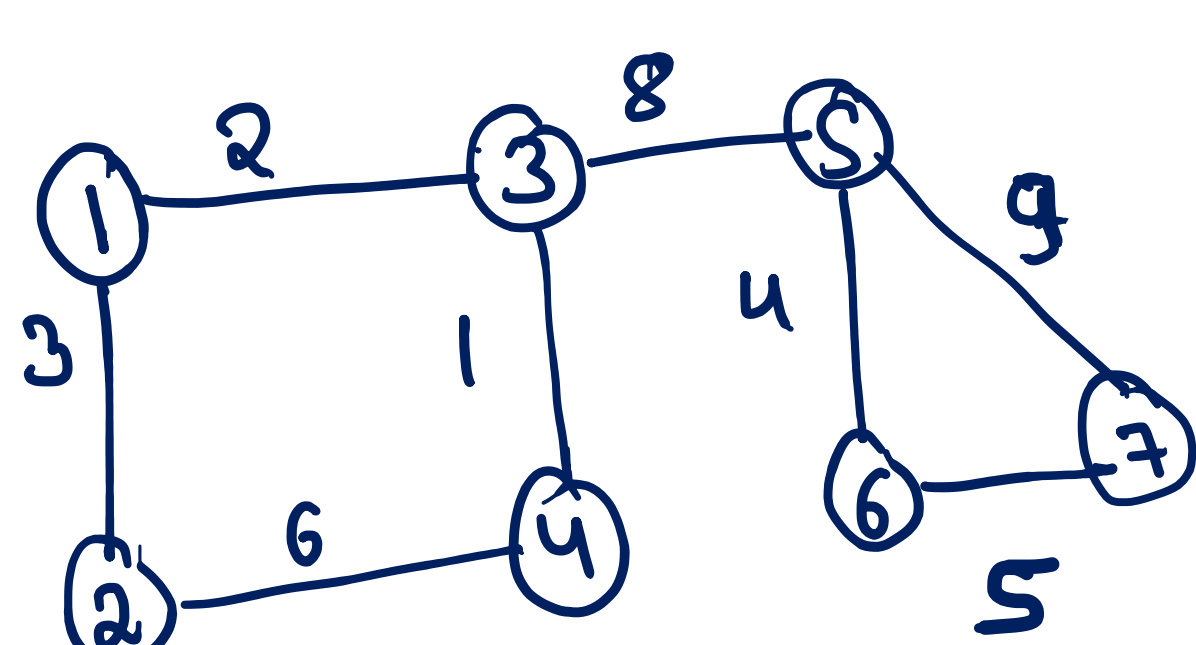
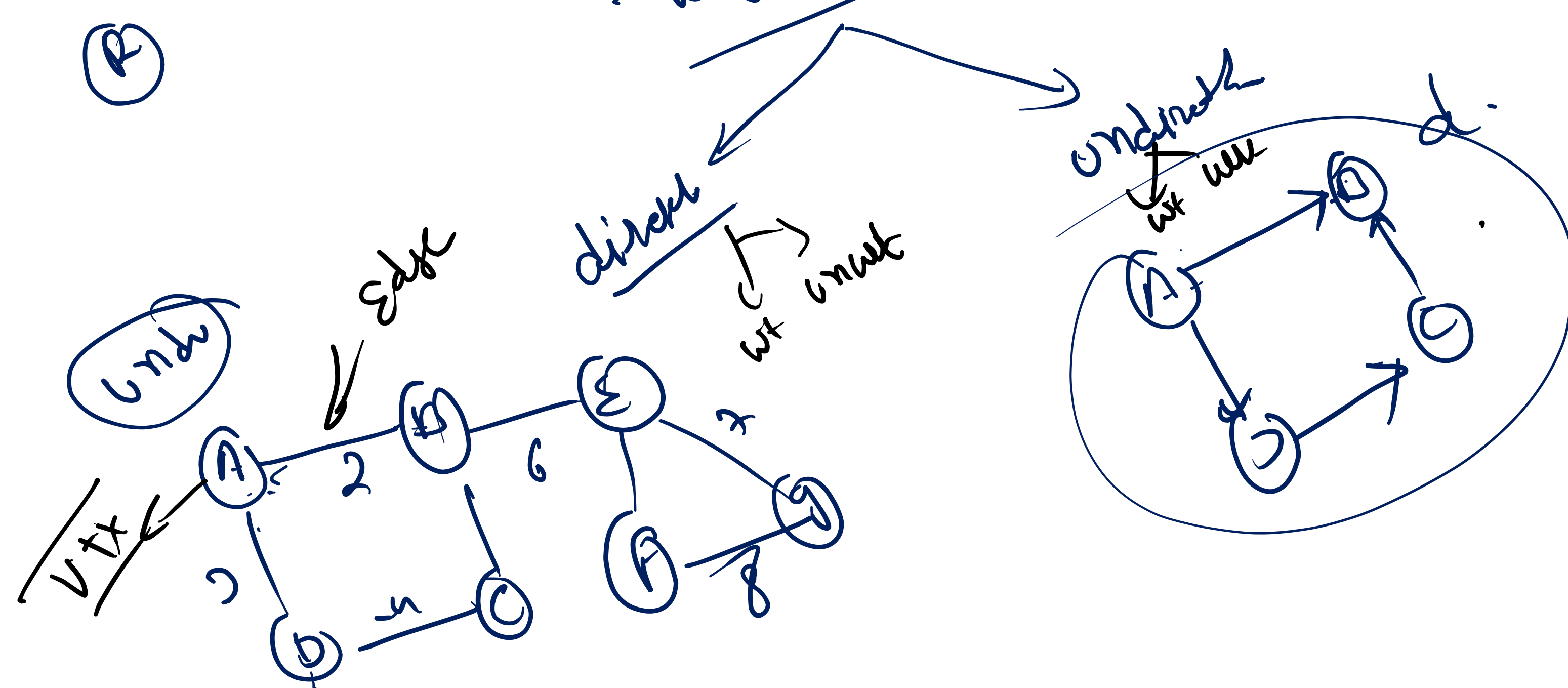


WiFi

②

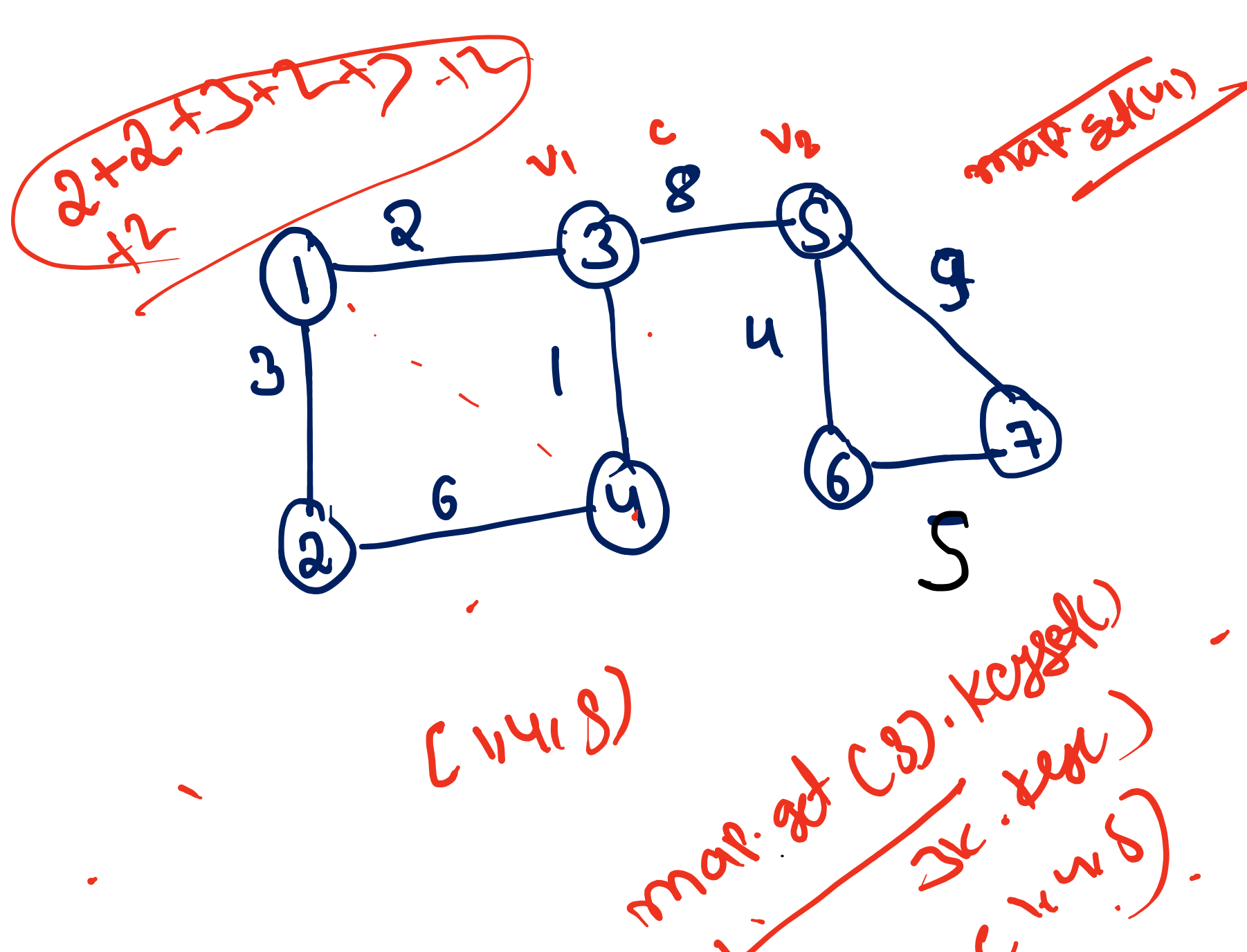
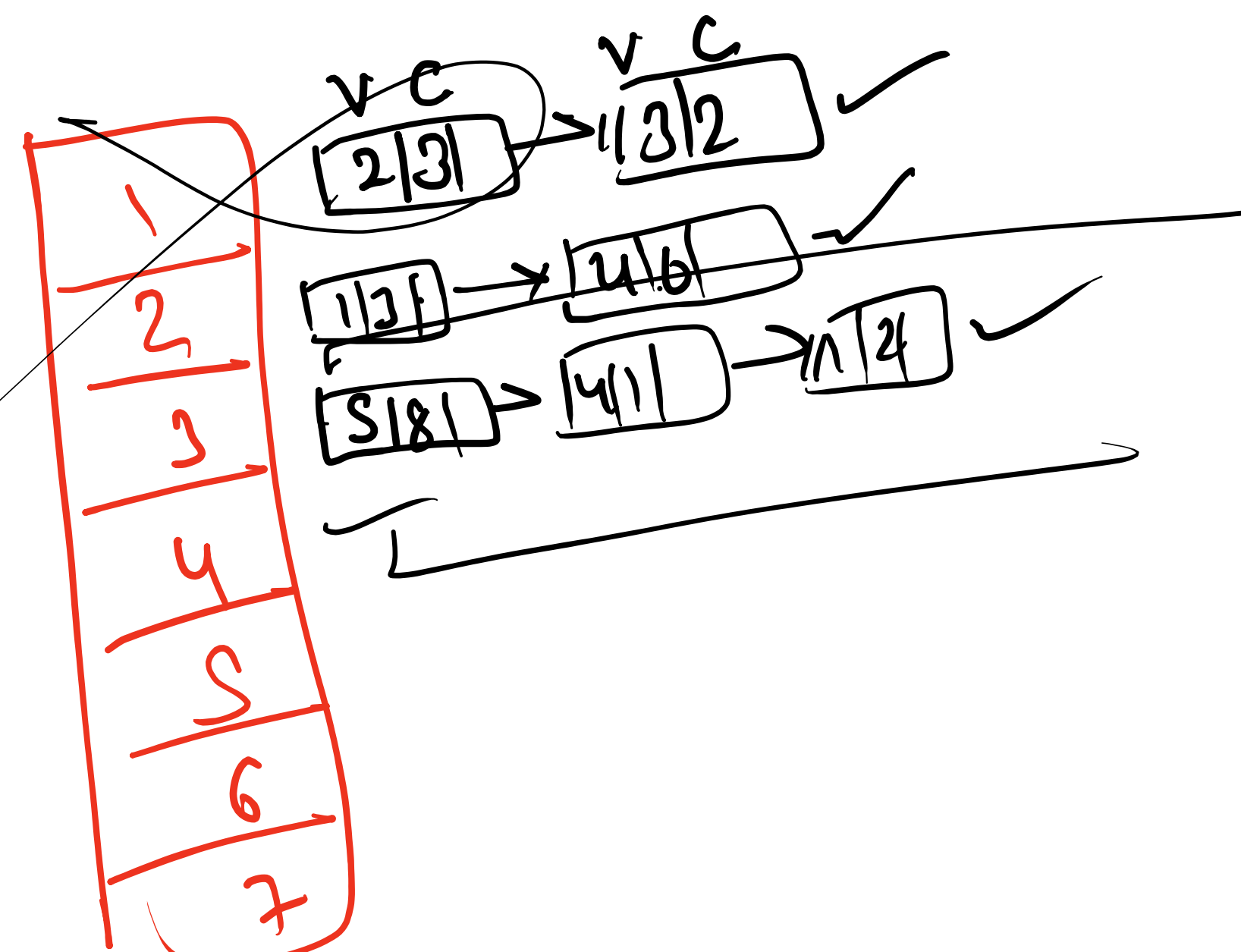
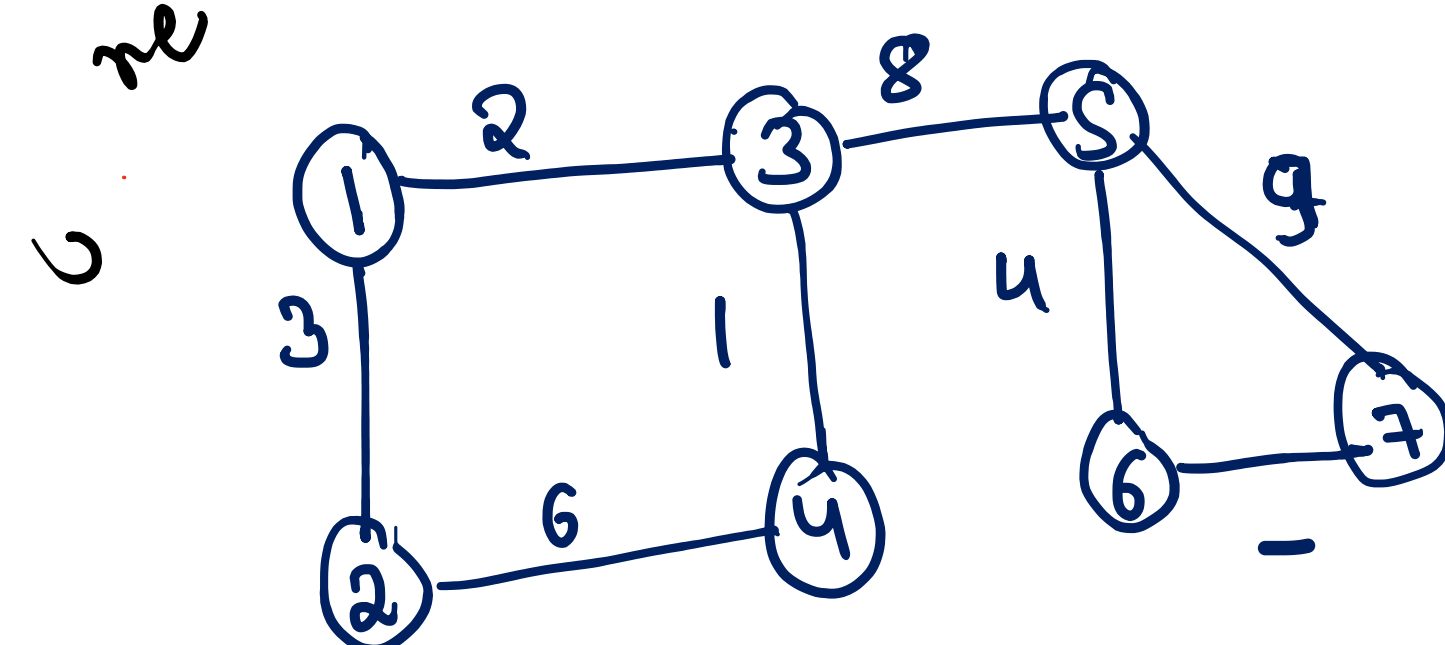
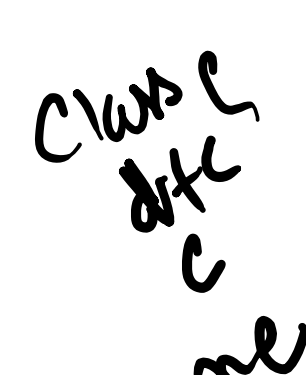
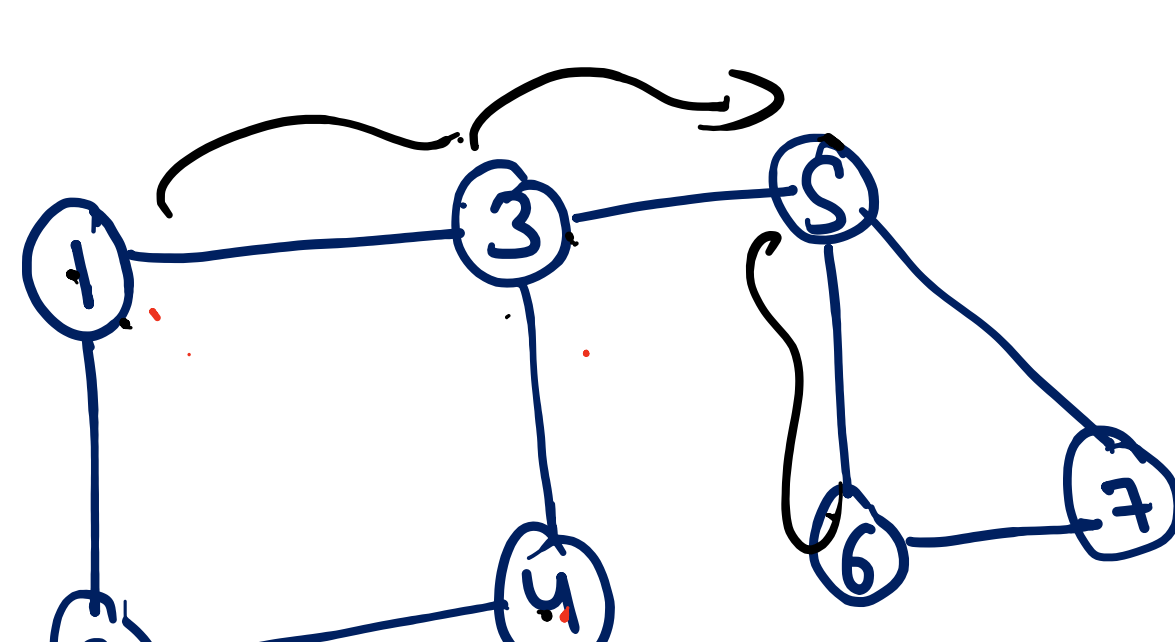
Graph

Why cosph



OC

(i) Adj matrix


$$\frac{1356}{1.2}$$


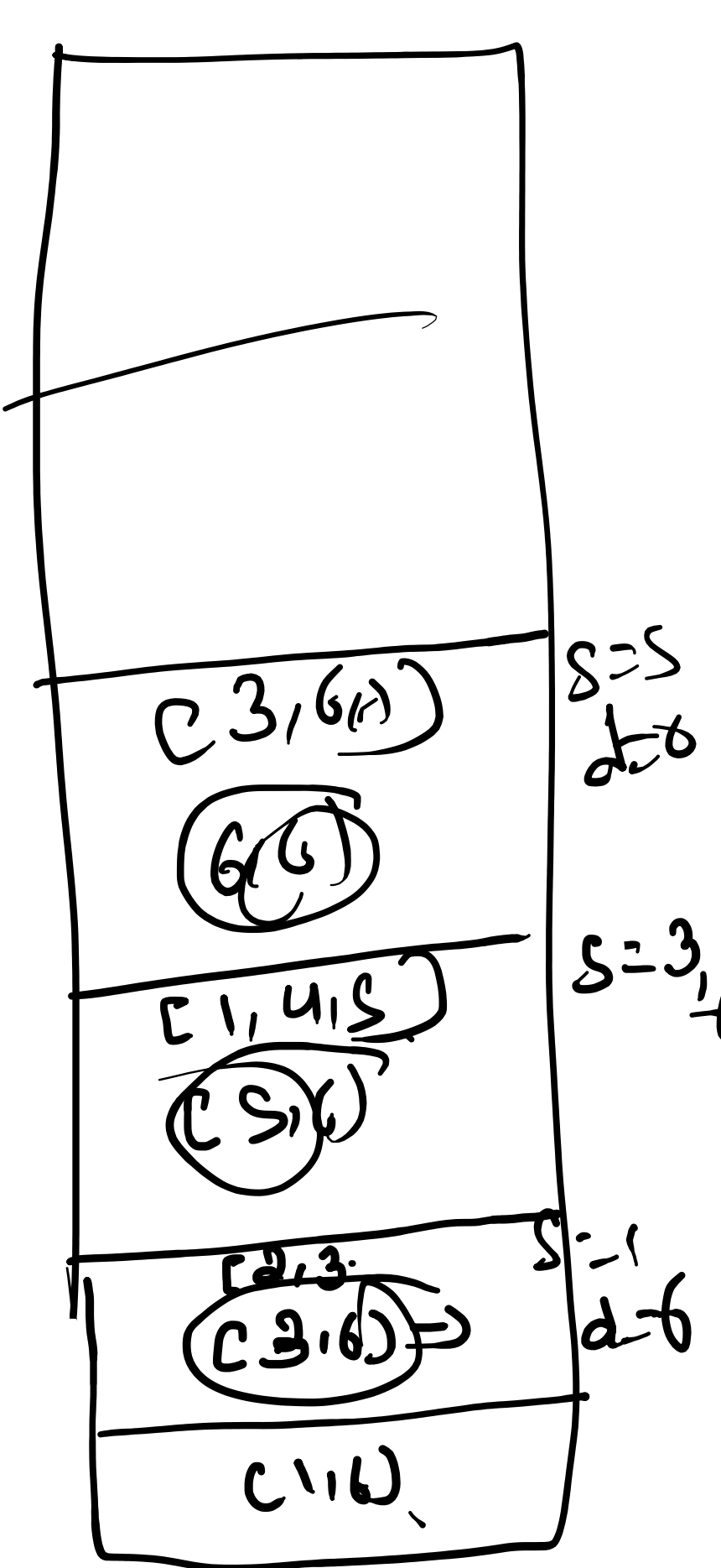
guy

IV3
S

```

    public boolean haspath(int src, int des, HashSet<Integer> visited) {
        if (src == des) {
            return true;
        }
        visited.add(src);
        for (int nbrs : map.get(src).keySet()) {
            if (!visited.contains(nbrs)) {
                boolean ans = haspath(nbrs, des, visited);
                if (ans) {
                    return true;
                }
            }
        }
        return false;
    }
}

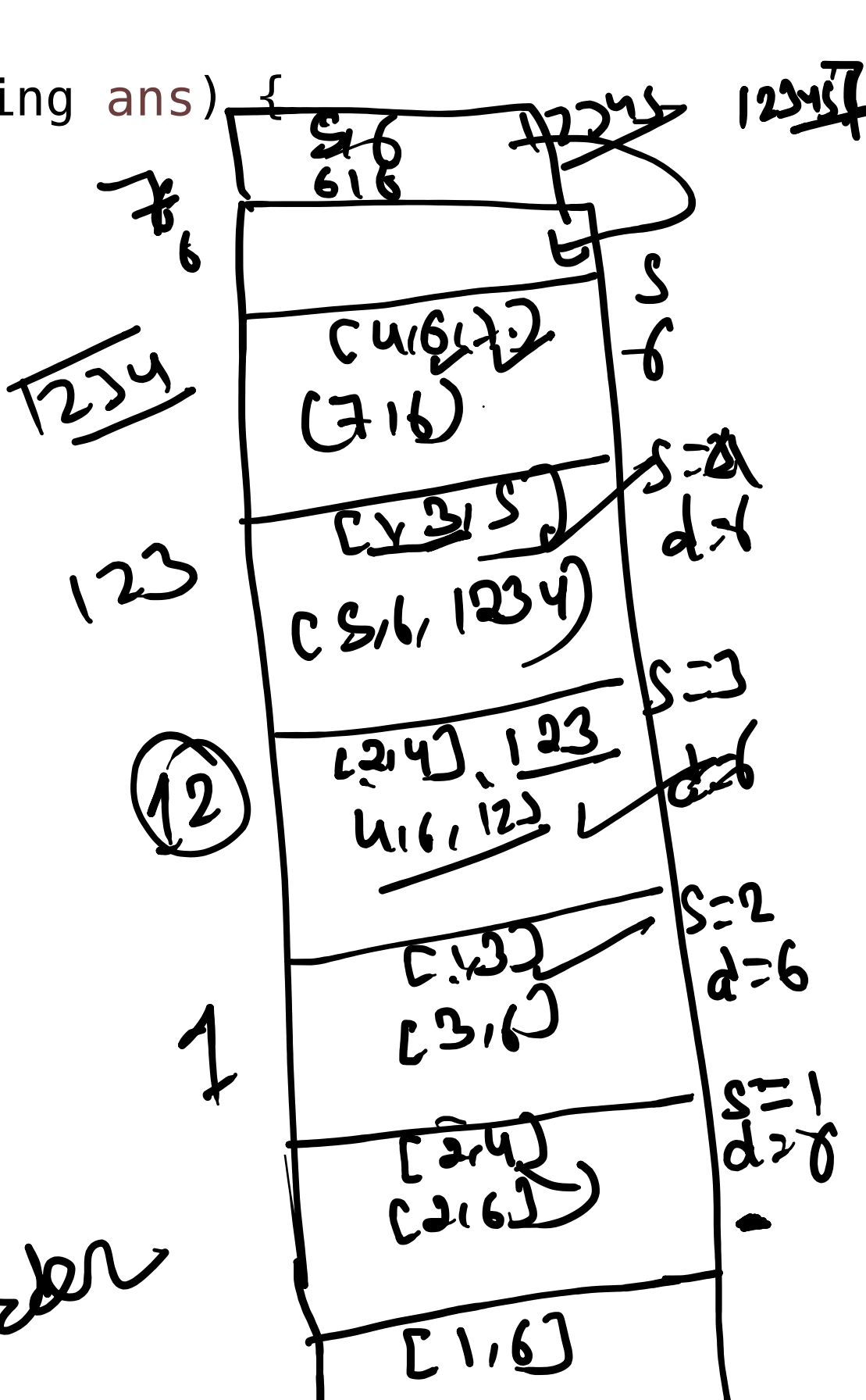
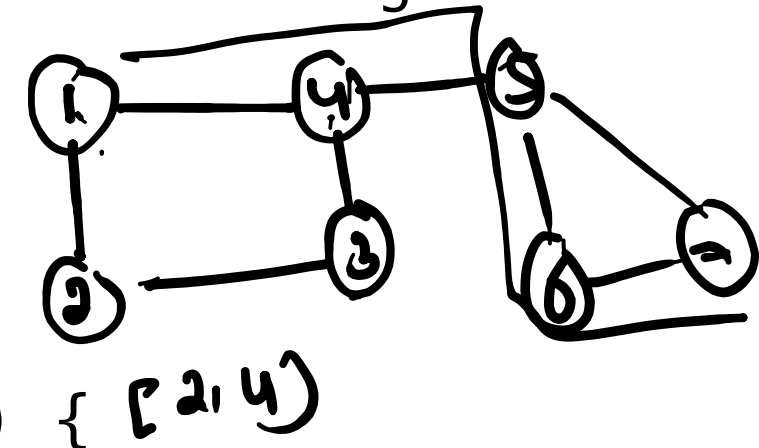
```



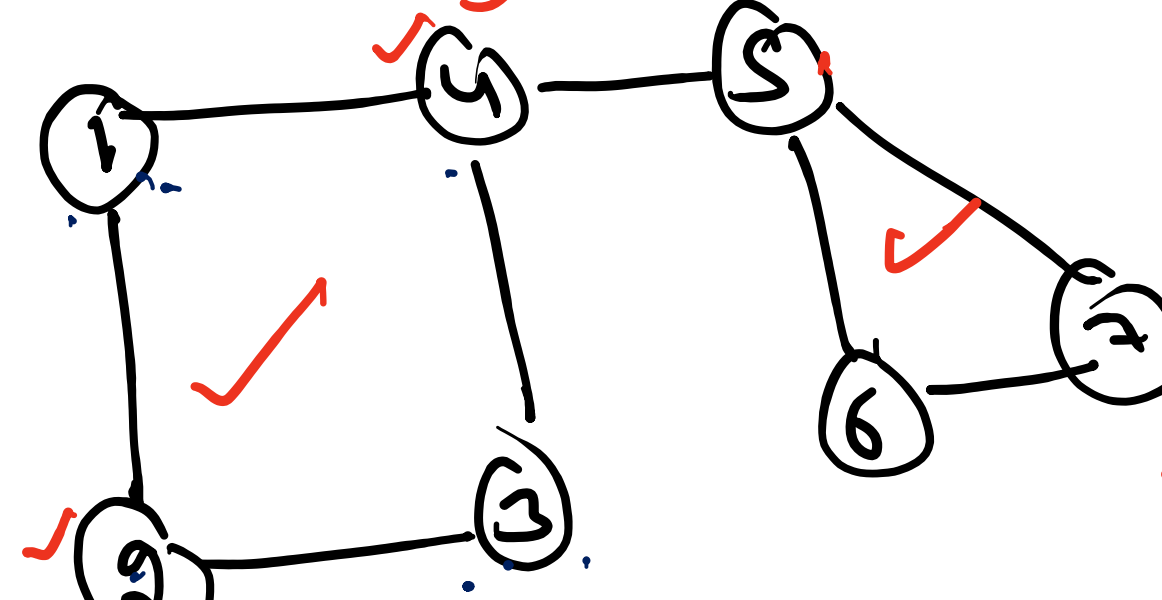
```

public void printAllpath(int src, int des, HashSet<Integer> visited, String ans) {
    if (src == des) {
        System.out.println(ans + des);
        return;
    }
    visited.add(src);
    for (int nbrs: map.get(src).keySet()) {
        if (!visited.contains(nbrs)) {
            printAllpath(nbrs, des, visited, ans + src);
        }
    }
}

```



BFS level-order



→ src = ...
dest = ...

1991 (7) 17

2	4	1	3	5	6	7	7
---	---	---	---	---	---	---	---

1. remove ✓
2. ignore, \Rightarrow ✓
3. visited.
4. self work ✓
5. Add nodes ✓