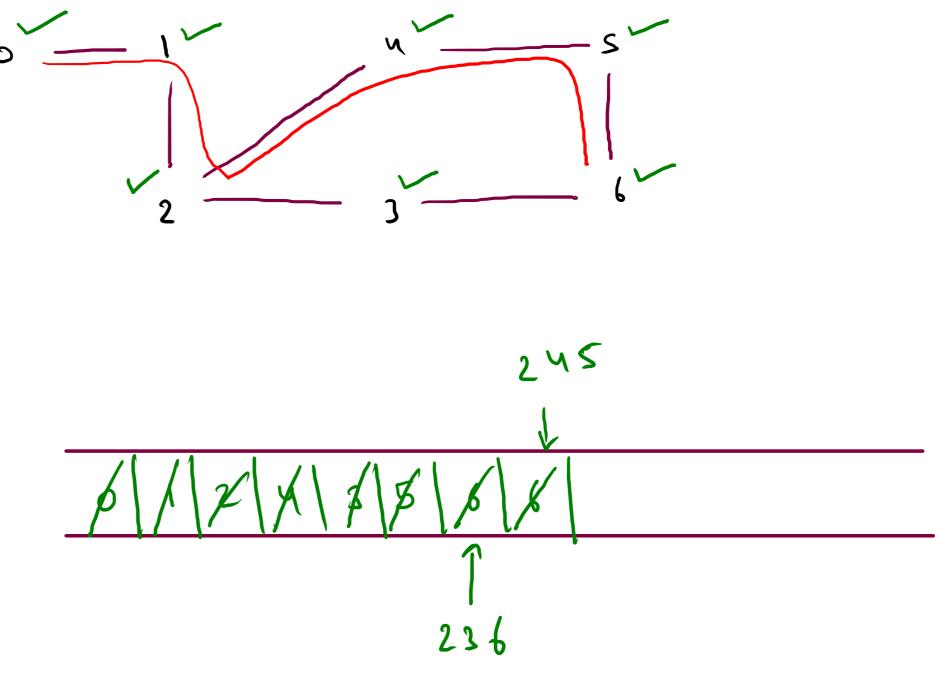
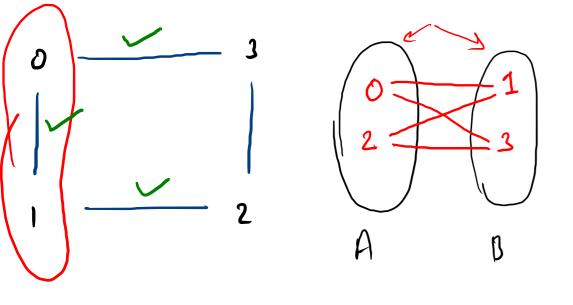


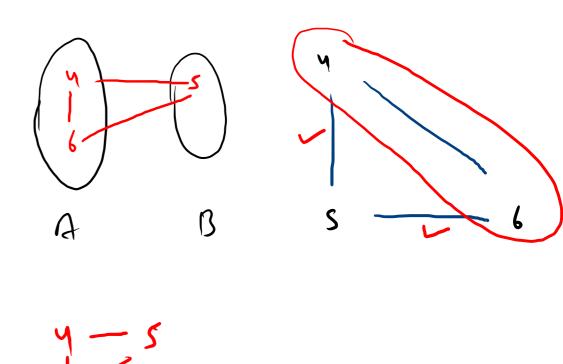
m all chi'l

```
Queue<Integer> q = new ArrayDeque<>();
q.add(src);
while(q.size() >0){
      int e = q.remove();
      if(visited[e]){
         return true;
      visited[e] = true;
      for(Edge edge: graph[e]){
          if(visited[edge.nbr] == false){
              q.add(edge.nbr);
return false;
```

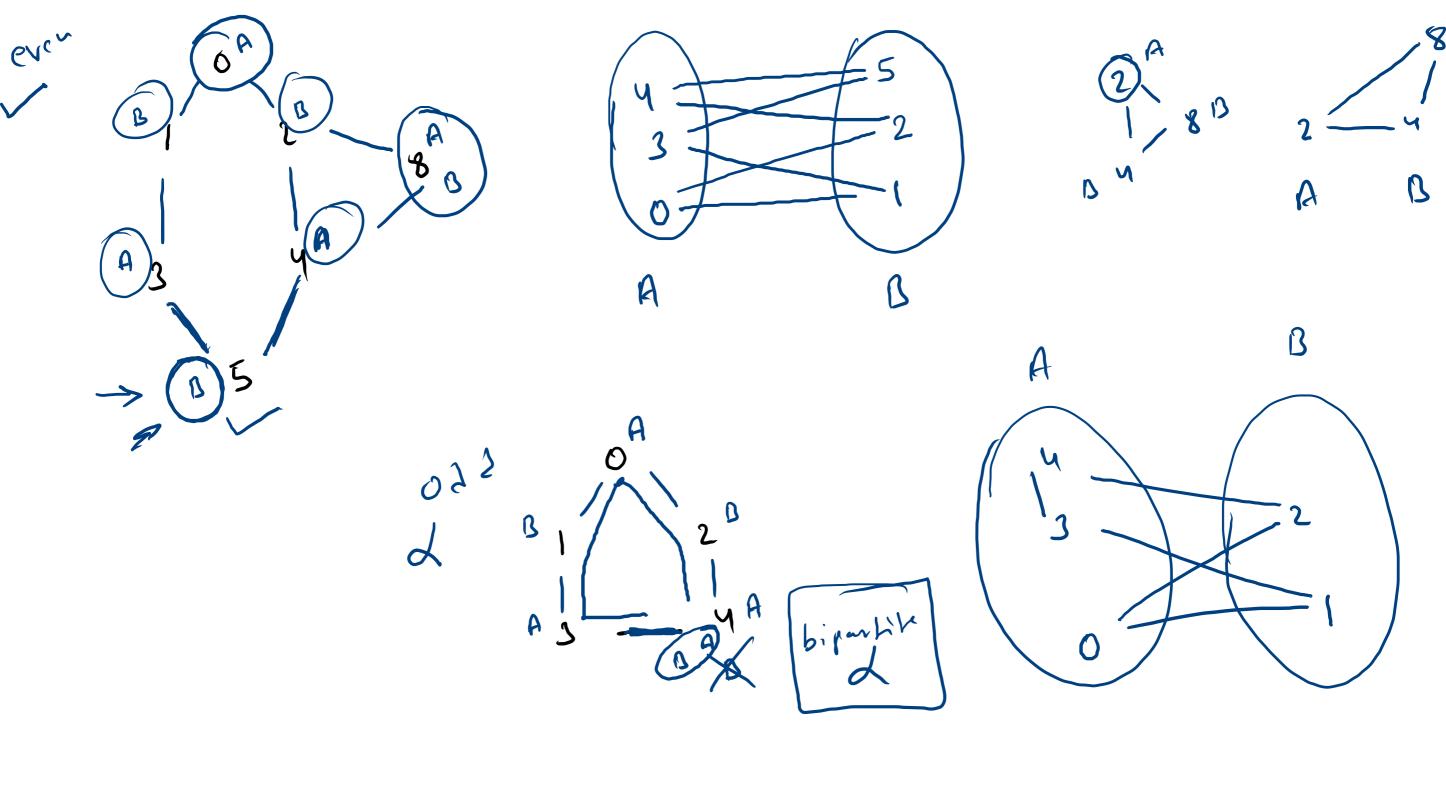


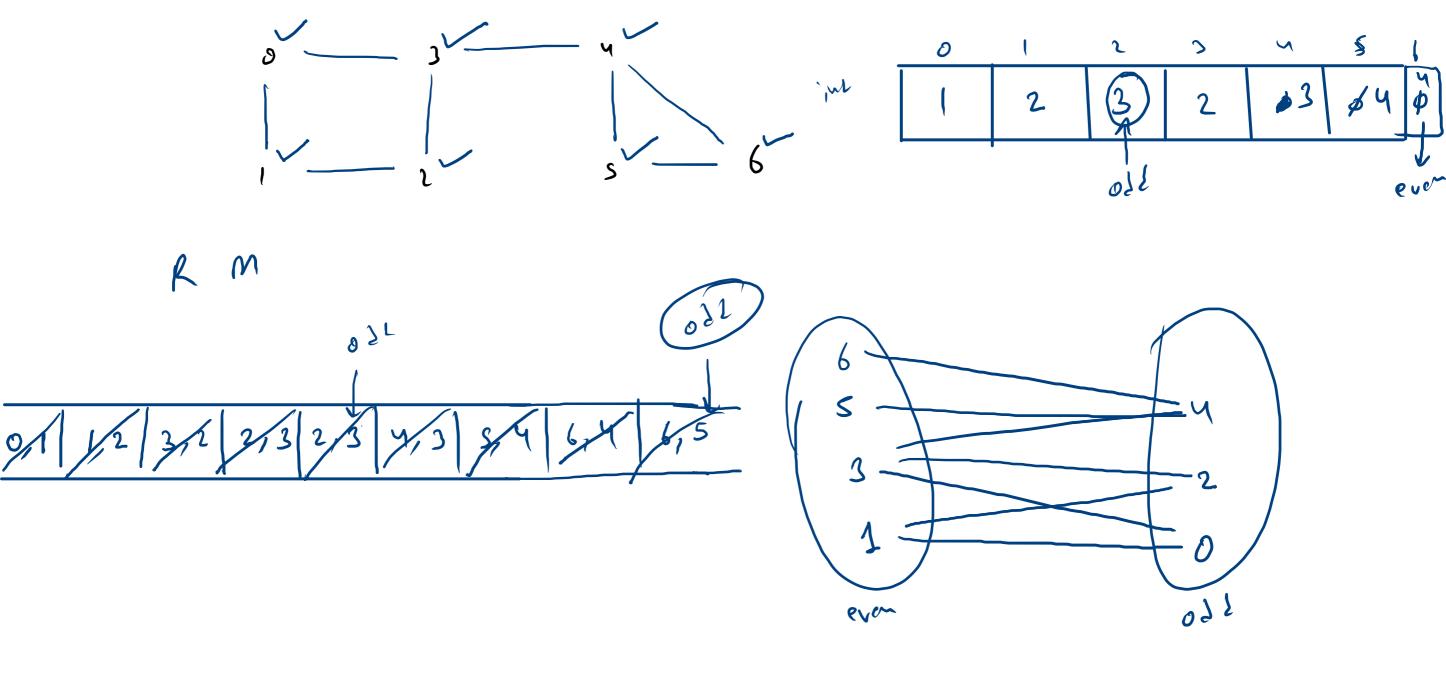


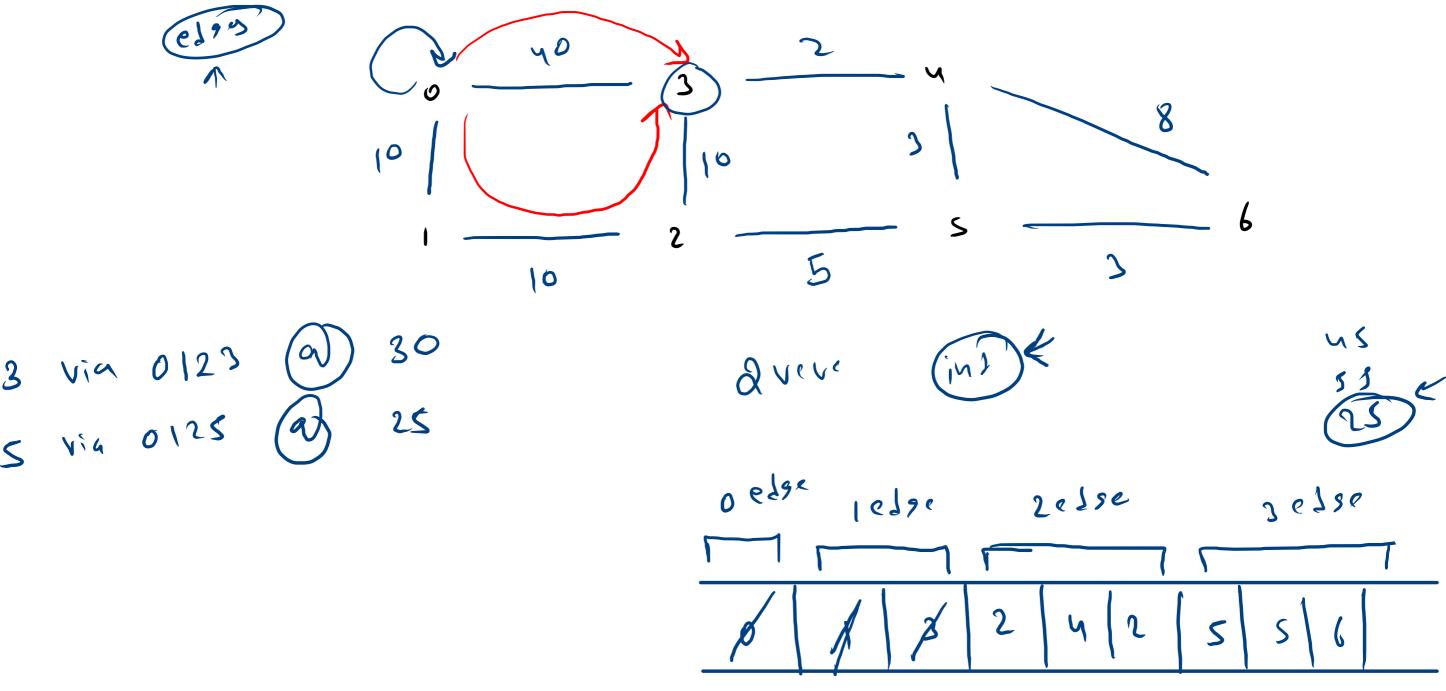
Palu



Calse







```
40
  10
                           10
                                   5
              10
                                              DYKSTRA
o PriorityQueue<Pair> q = new PriorityQueue<>();
 q.add(new Pair(src, ""+src, 0));
 boolean visited[] = new boolean[vtces];
 while(q.size() > 0){
    Pair p = q.remove();
      if(visited[p.src] == true)continue;
    visited[p.src]=true;
    System.out.println(p.src+" via "+p.path+" @ "+p.wt);
     for(Edge e: graph[p.src]){
          if(visited[e.nbr] == false){
              q.add(new Pair(e.nbr, p.path+e.nbr, (p.wt+e.wt));
```

```
des cost

0 0 src pass ut

1 10

2 20 4, 11 012841,28
```

```
6, "01256", 28

3, "03", 40

6, "01254 (", 36)

3, "0123", 30

3, "0123", 30
```

$$\begin{array}{c|c}
0 & \xrightarrow{40} & 3 & \xrightarrow{2} & 4 \\
1 & \xrightarrow{10} & 2 & 5 & 3
\end{array}$$

wt

マダン

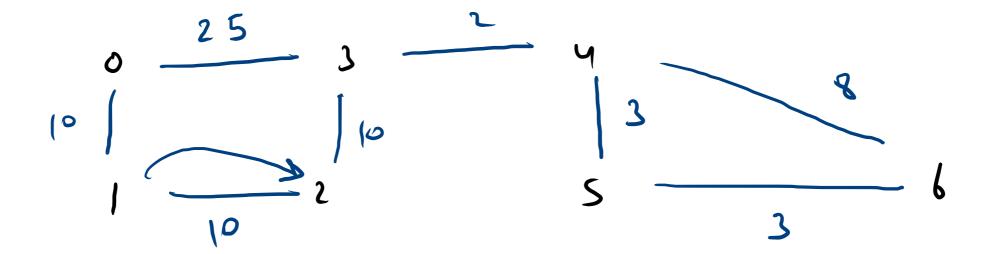
0-1 @ 10

Tolal = 30 mil

1 20

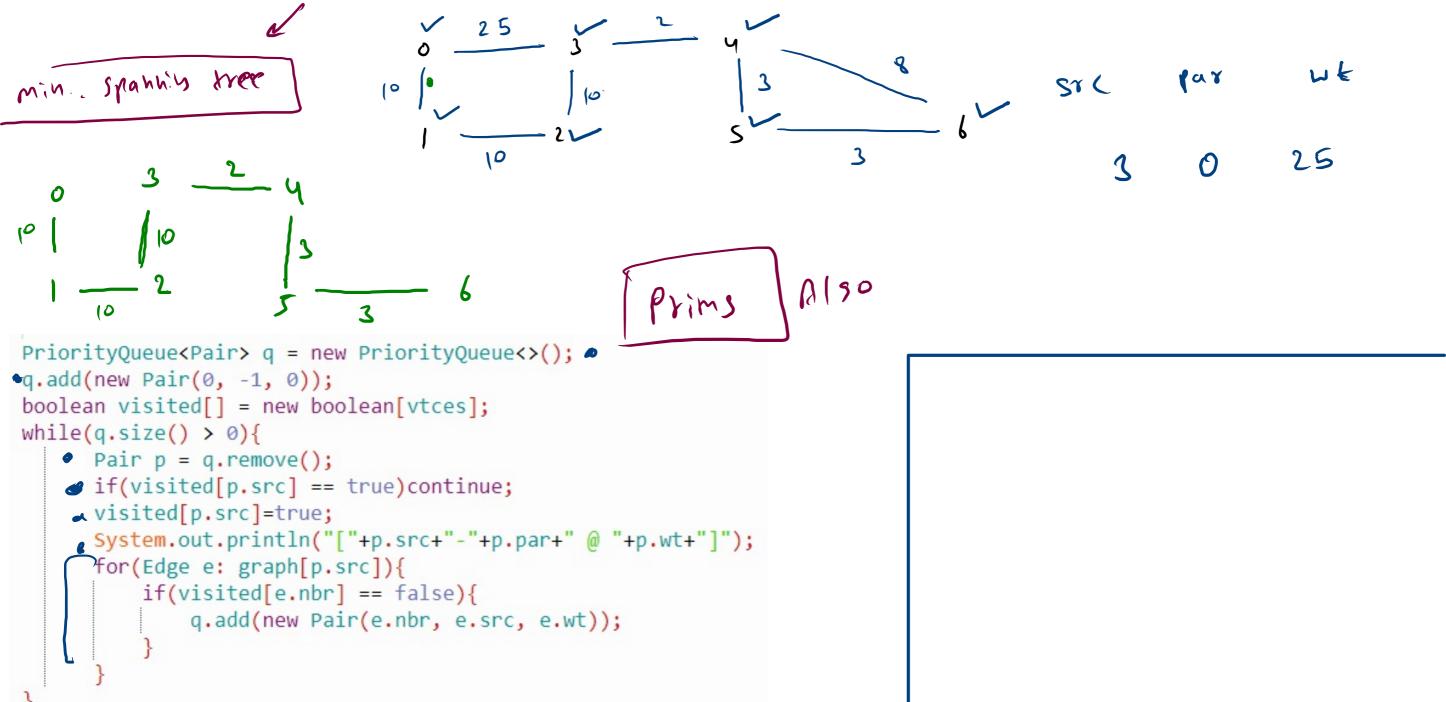
1 1 3

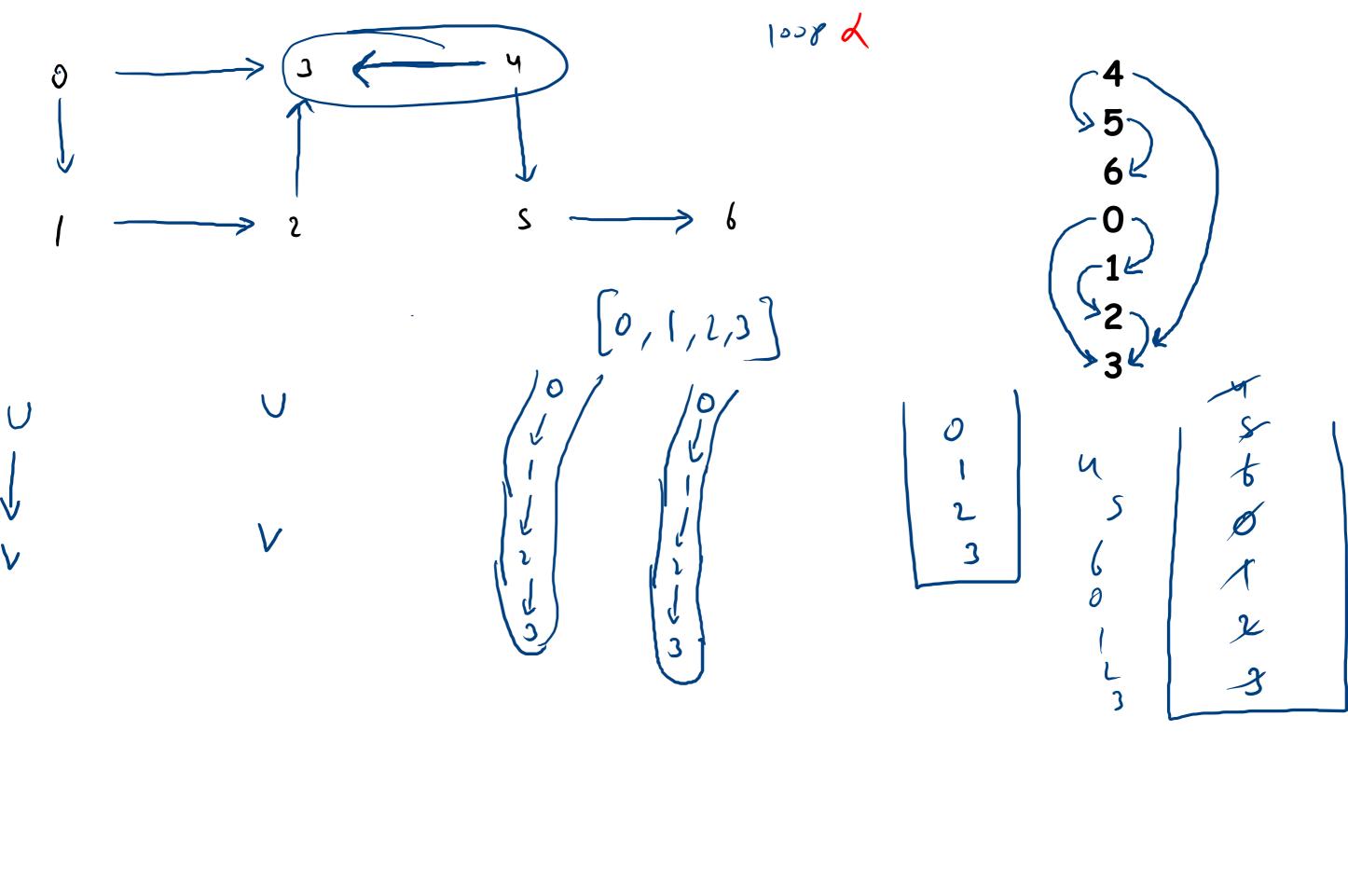
Dyle

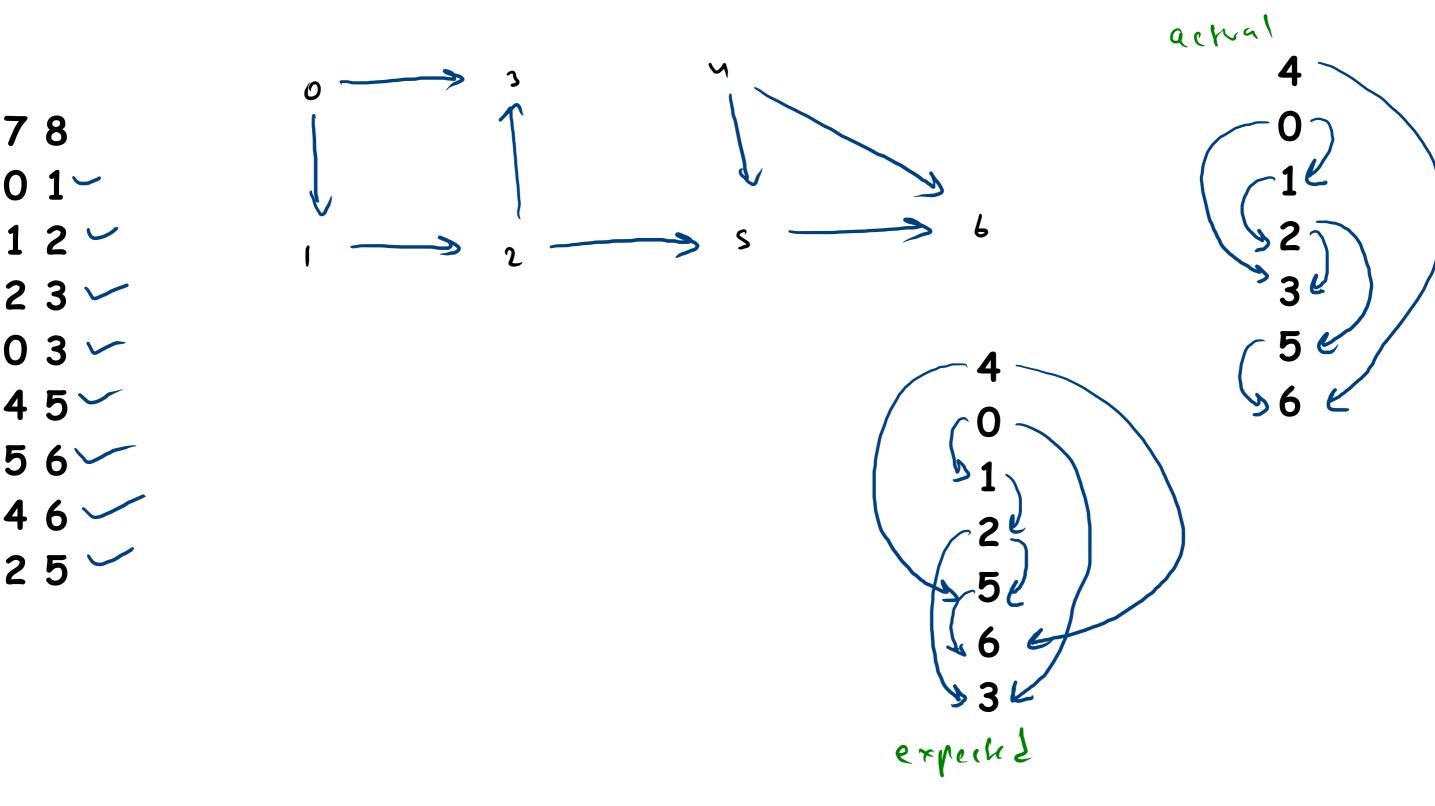


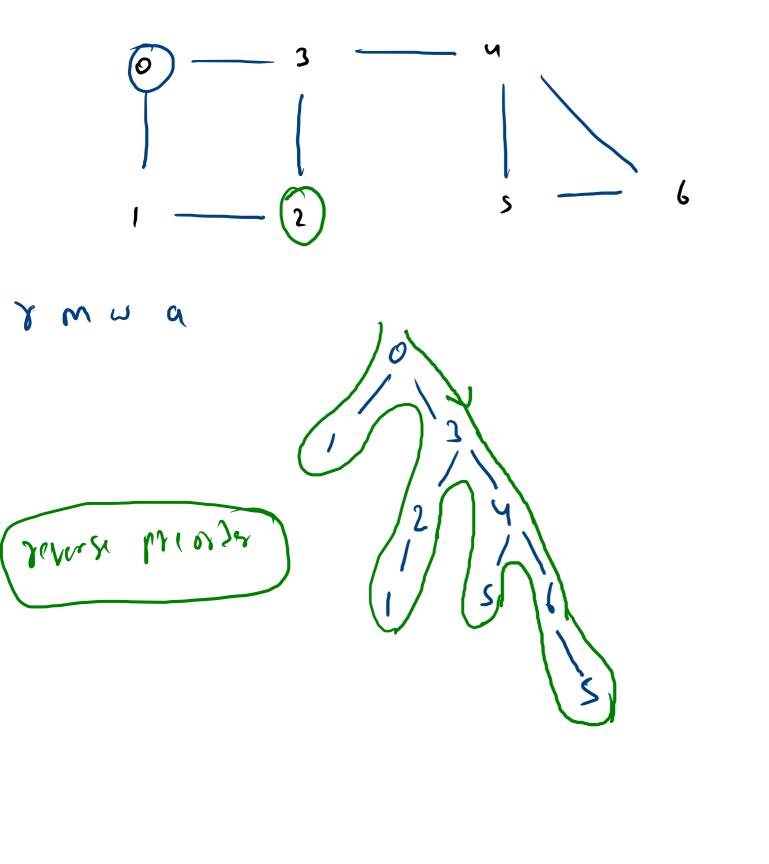
sn - Dur

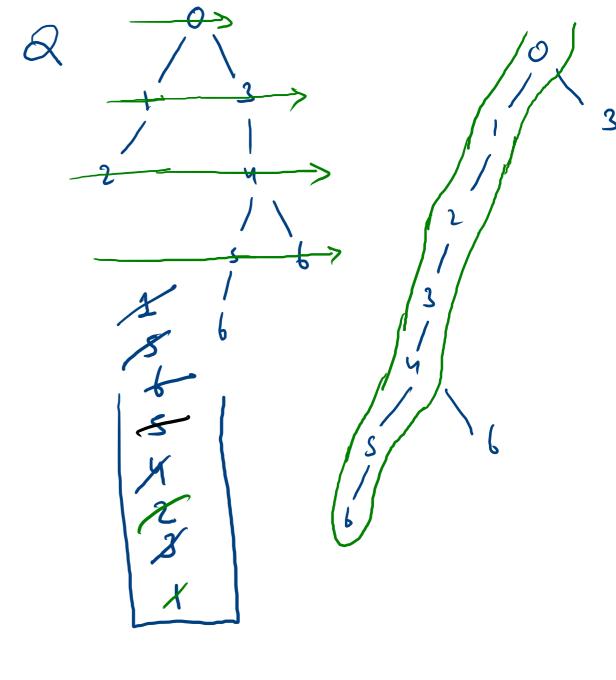
0

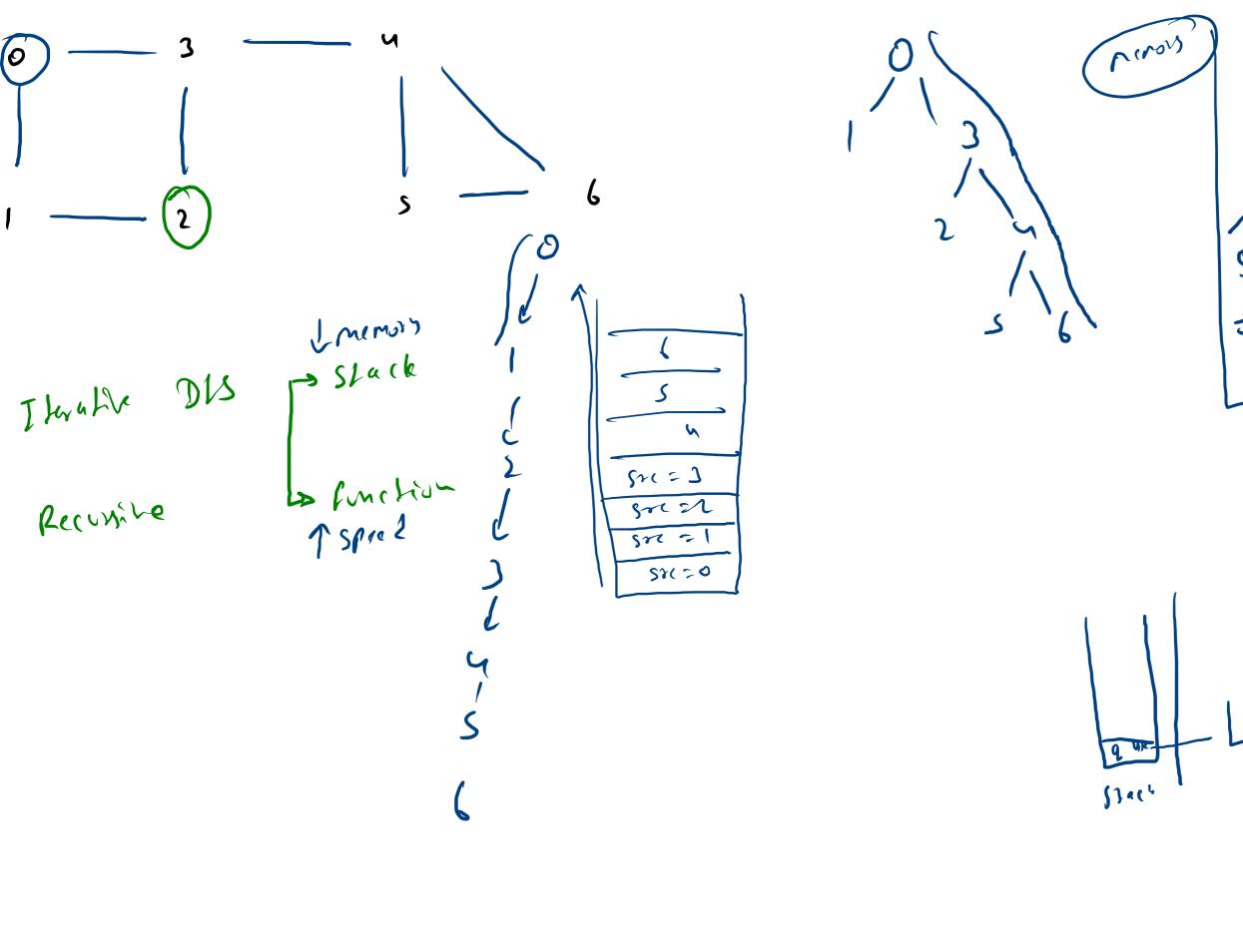




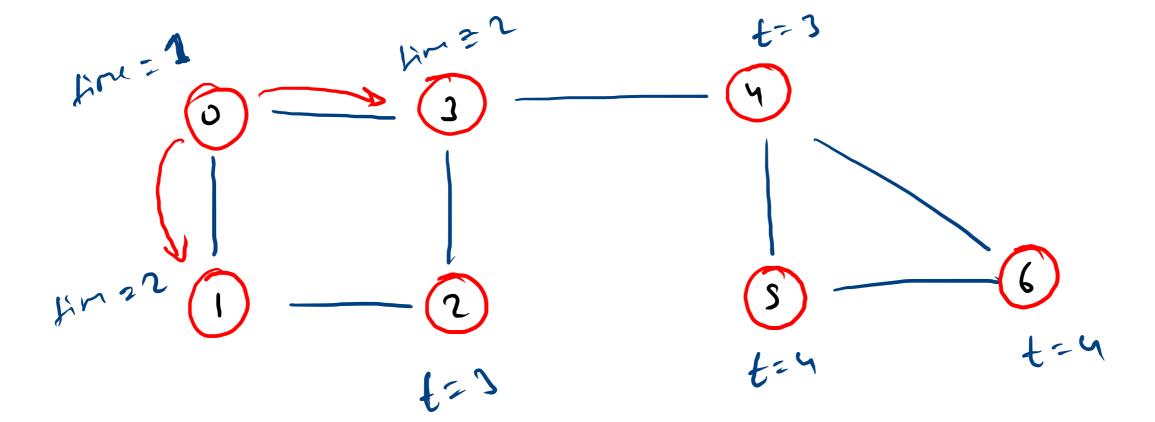


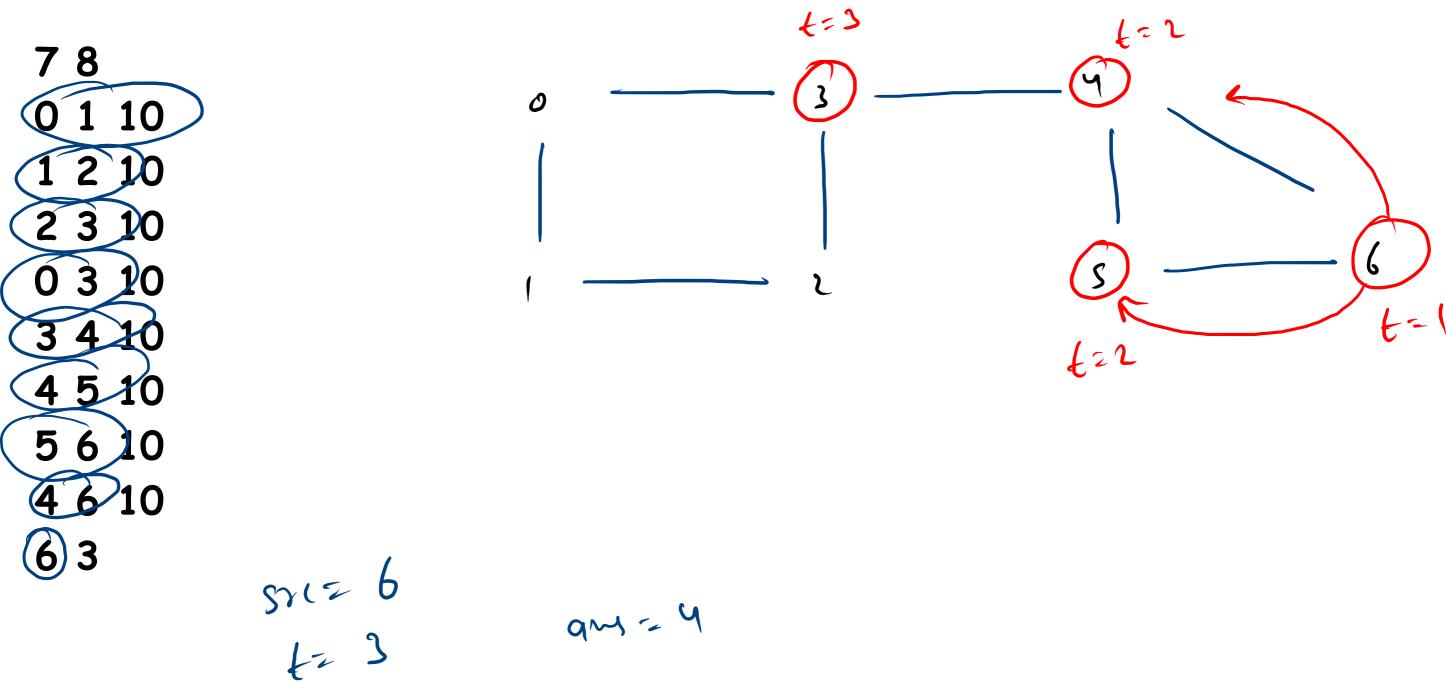






Near





am = 4