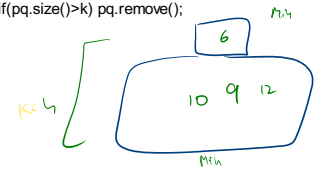
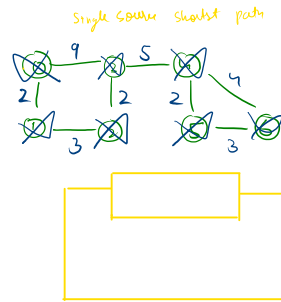


```
if(pq.size()>k) pq.remove();
```

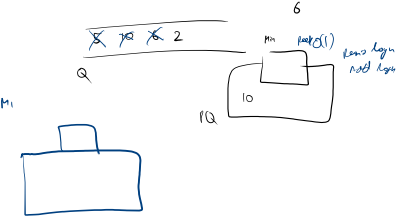
[illegible]

- * Remove
- * Mark
- * Work
- * Add missing nbrs

BFS \rightarrow PC

1 \rightarrow 01 \odot 2
 2 \rightarrow 012 \odot 5
 3 \rightarrow 0123 \odot 7
 4 \rightarrow 01234 \odot 12
 5 \rightarrow 012345 \odot 17
 6 \rightarrow 0123456 \odot 16

1 2 3 4 5 6 ⑦ 15
 show → 1 2 3 4 6 ⑦ 14
 1 0 3 4 5 6 ⑦ 21
 cell path → 1 0 3 4 6 ⑦ 20



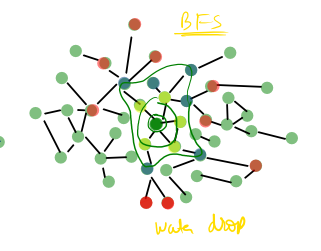
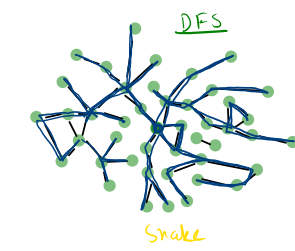
- x Male
- x work +
- x Visit all universiti
- x path false

Spec = 6

Part: $\frac{I}{0} \frac{I}{1} \frac{I}{2} \frac{I}{3} \frac{I}{4} \frac{I}{5} \frac{I}{6}$

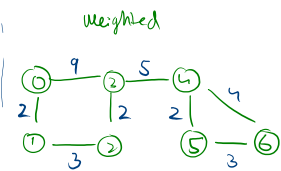
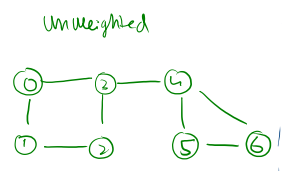
103456
21

10346
20



$(10 \ 30 \ 10 \ 100 \ 50 \ 60)$

0 2 2.2 3.9 4.7 5



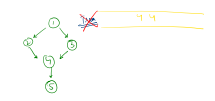
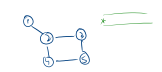
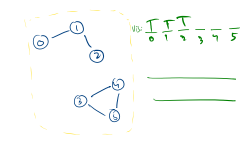
0. $\frac{3,9}{}$ }
 1. $\frac{2}{}$ }
 2. $\frac{1}{}$ }
 3. $\frac{0,9}{}$ }
 4. $\frac{3,5}{}$ }
 5. $\frac{1}{}$ }
 6. $\frac{4}{}$ }

```
ArrayList<Integer>[] graph
ArrayList<Edge>[] graph
```

```
ArrayList<Arraylist<Integer>> graph
Arraylist<ArrayList<Edge>> graph
```

```
curr
for(Edge e: graph.get(curr)){
    int nbr = e.nbr;
    int wt = e.wt;
}
```

```
boolean[] vis = new boolean[graph.size()];
for(int i = 0; i<vis.length; i++){
    if(vis[i] == true) continue;
    boolean isCompCyclic = bfs(graph,i,vis);
    if(isCompCyclic) return true;
}
return false;
```



```
public boolean check(String s, String t) {
    if (s.length() != t.length()) return false;
    int[] count = new int[26];
    for (int i = 0; i < s.length(); i++) {
        count[s.charAt(i) - 'a']++;
        count[t.charAt(i) - 'a']--;
    }
    for (int i = 0; i < count.length; i++) {
        if (count[i] != 0) return false;
    }
    return true;
}
```

Handwritten notes on a whiteboard:

Top left: $NB: \frac{dT}{T} = \frac{1}{\gamma} \frac{d\gamma}{\gamma}$

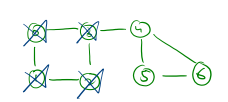
Top right: $\frac{dT}{T} = \frac{1}{\gamma} \frac{d\gamma}{\gamma}$

Center: A diagram showing a particle's path in a magnetic field. The path is a helix with a vertical axis labeled T and a horizontal axis labeled r . The path is divided into segments labeled 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. The path is a helix with a vertical axis labeled T and a horizontal axis labeled r . The path is divided into segments labeled 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Bottom left: NBR

Bottom right: NBR

NBSK
 ↳ Visited \Rightarrow dfs
 \rightarrow Visited all path \Rightarrow determine true
 \rightarrow Visit all path \Rightarrow Continue



- * Remove
- * Mark
- Work
- * Add unwanted mbrs

$\frac{2}{3}$

$\frac{4}{5}$

Vis: $\frac{1}{0} \frac{1}{1} \frac{1}{2} \frac{1}{3} \frac{1}{4} \frac{1}{5} \frac{1}{6}$