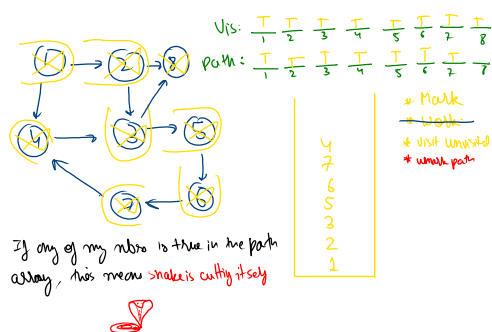
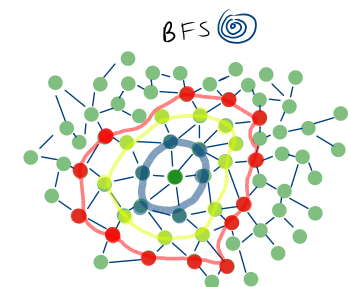
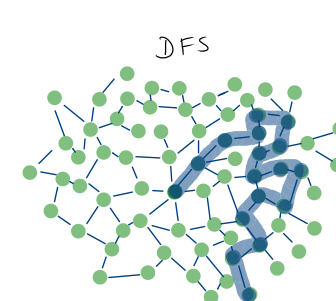
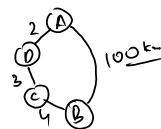
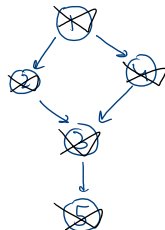
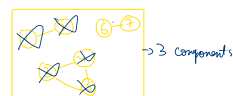


Vis:  $\frac{T}{1} \quad \frac{T}{2} \quad \frac{T}{3} \quad \frac{T}{4} \quad \frac{T}{5}$   
 Path:  $\frac{\quad}{1} \quad \frac{\quad}{2} \quad \frac{\quad}{3} \quad \frac{\quad}{4} \quad \frac{\quad}{5}$



### Components of A Graph



2) Just apply BFS on every unvisited node.

70

Crash cost = 60  
Normal cost = 30

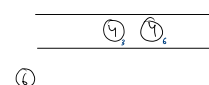
```

while (q.size() > 0) {
    // Remove
    // Mark
    if already marked
        return true
    mark it
    // work ---
    add unvisited Nbrs.
}

```



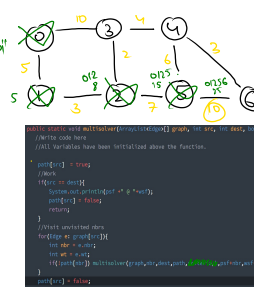
Detect Cycle undivoted


$$\text{src} = 0$$
$$\text{dst} = 6$$
$$K=9$$

Print all Patus from SRC  $\rightarrow$  Destination

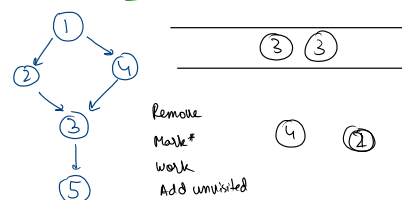
$$A_1 \subset A_2 \subset \text{Pair} \Rightarrow$$

DFS + Path  
BFS



0123456 @ 30  
012346 @ 17  
012546 @ 24  
01256 @ 25  
032546 @ 28  
03256 @ 29  
03456 @ 30  
0346 @ 17

DFS



$pq.size() \leq 4$