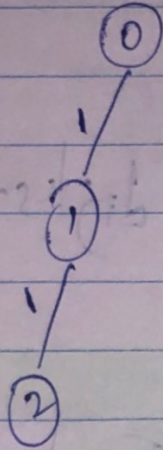


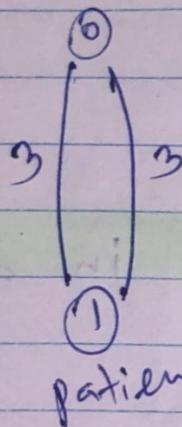
*The Time When the Network Becomes Idle

Note that weight is the same of graph.



\therefore We can use bfs easily

find distance from 0 to every other vertex.



when at $t=5$,

$$\# \text{ of extra msgs} = \frac{5}{2} = 2$$

when $t=6$, initial arrives

in $t+2$: first arrives

in $(t+2)+2$ second arrives

$$\therefore \text{extra time} = \text{extra msgs} * \text{patience}$$

Bellman Ford won't work \rightarrow TLE
dijkstra works