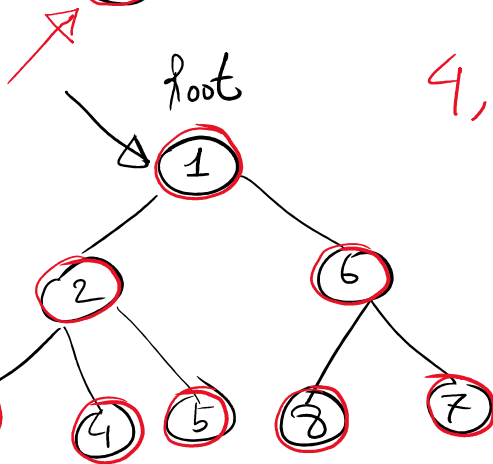
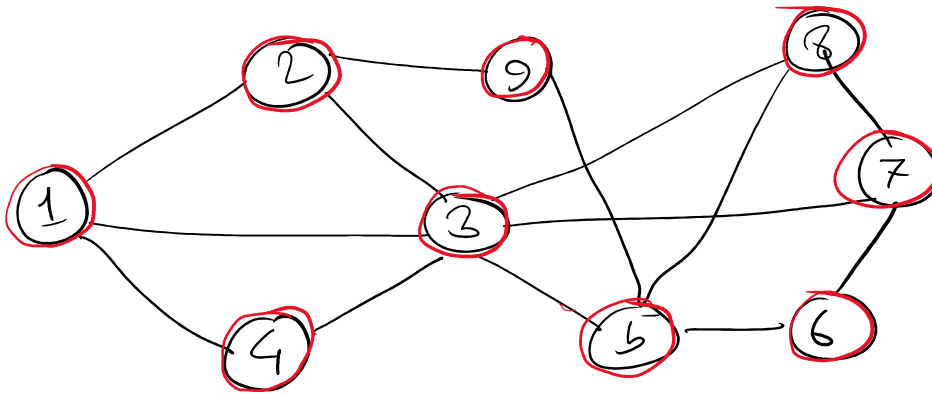
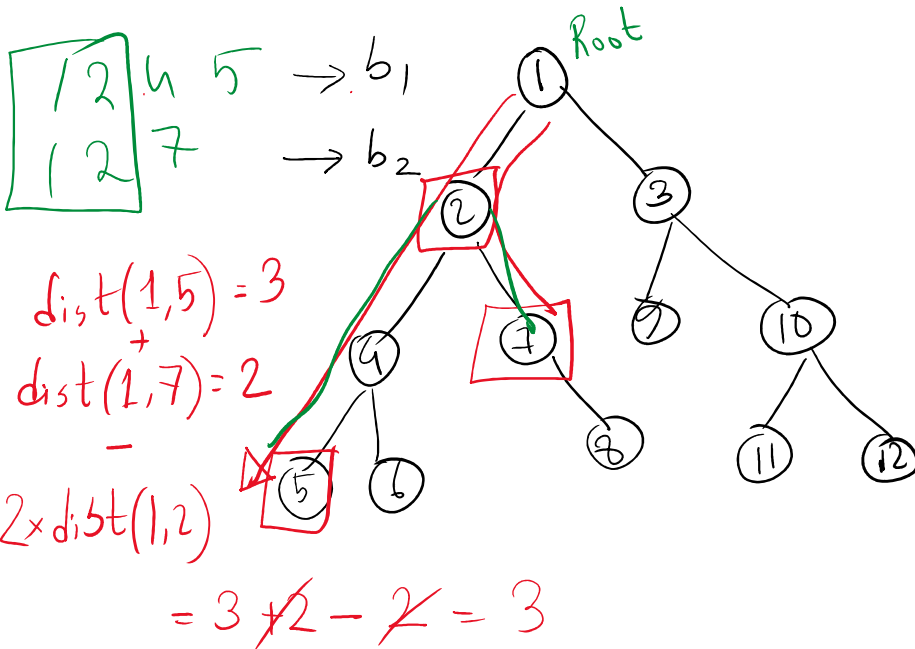
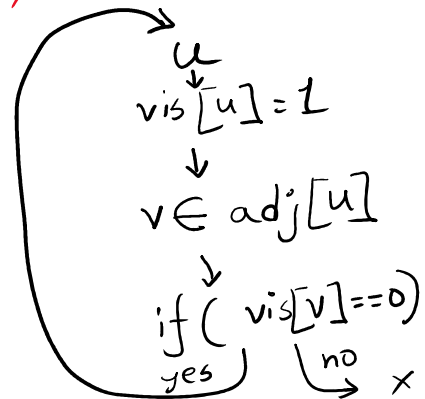


# DFS → Depth First Search



4, 1, 3, 7, 6, 5, 8, 9, 2



2: 1 2

3: 1 3

4: 1 2 4

5: 1 2 4 5

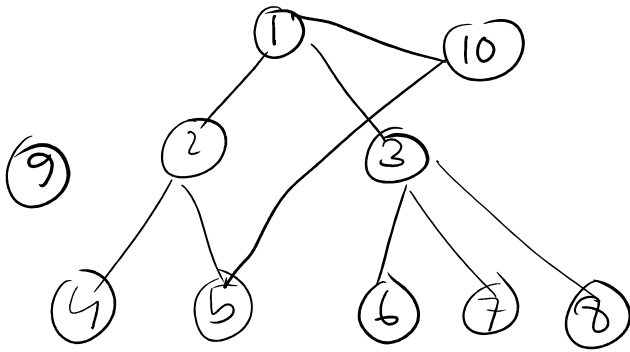
6: 1 2 4 6

7: 1 2 7

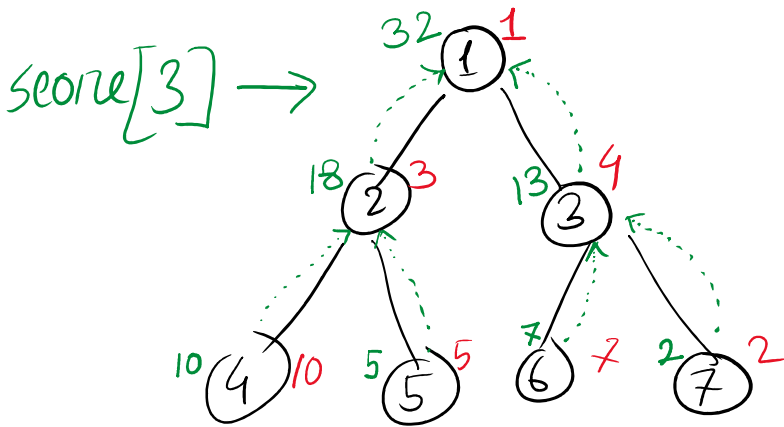
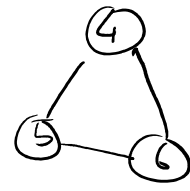
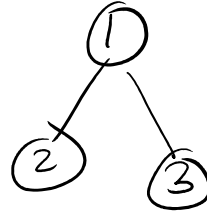
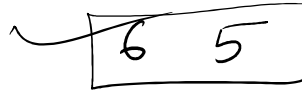
8: 1 2 7 8

BREAK!

BREKK!



N M back @ 10:08



Root: 1

$$1 \leq N \leq 10^5$$

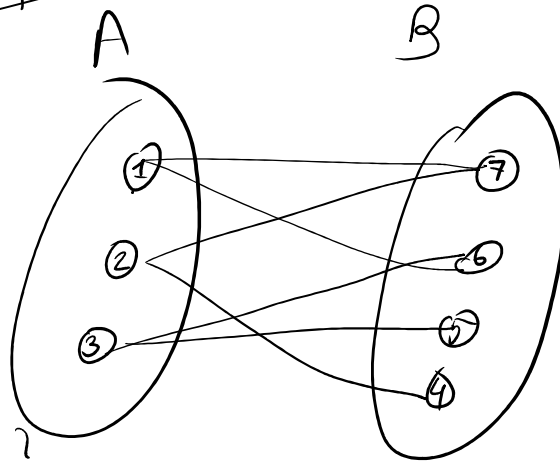
$$1 \leq Q \leq 10^5$$

$$2 \rightarrow 18$$

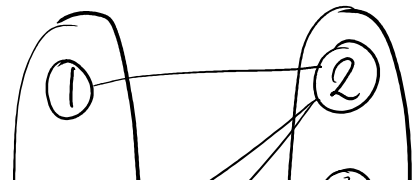
$$1 \rightarrow 32$$

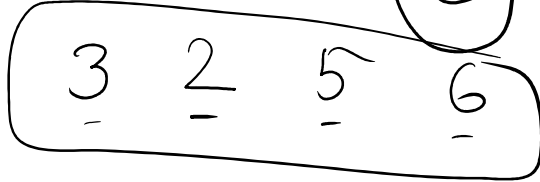
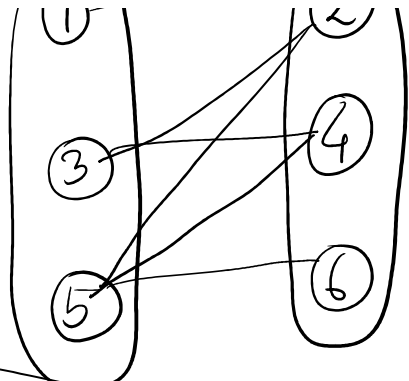
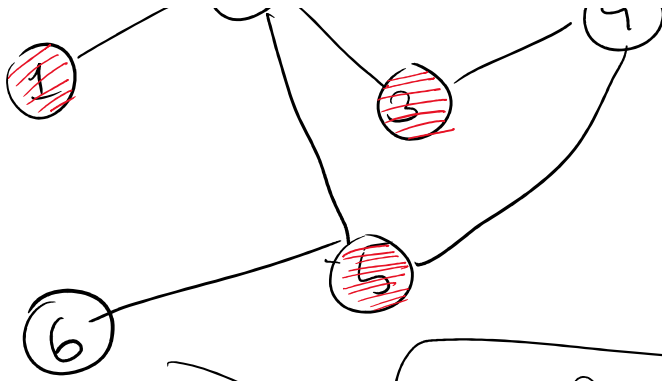
$$6 \rightarrow 7$$

Bicoloring / Bipartite

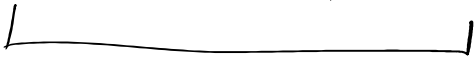


HW BP Check?

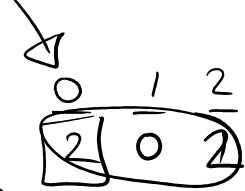
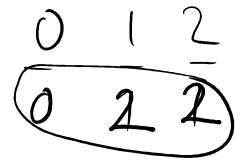




1 1 3 2 1 4 5



+1



$4 \times \log_2 N$

$4 \times \log_2 N$

