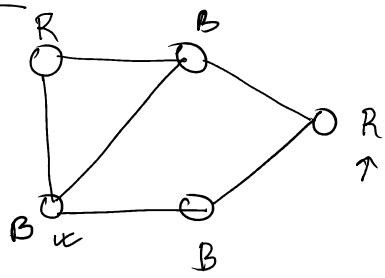
Part 1: Gaining Problem Solving Skill → Hard work, Time Investment

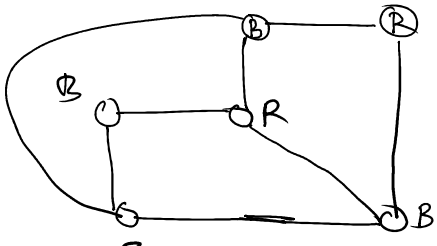
Part 2: Learning Topics

Problem 6

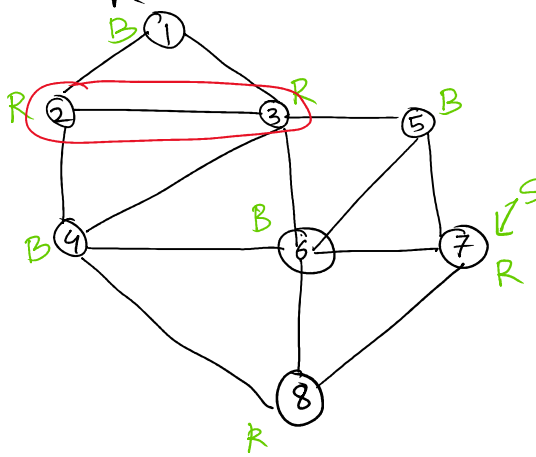


Blue Red

☒ Bi-Colorable

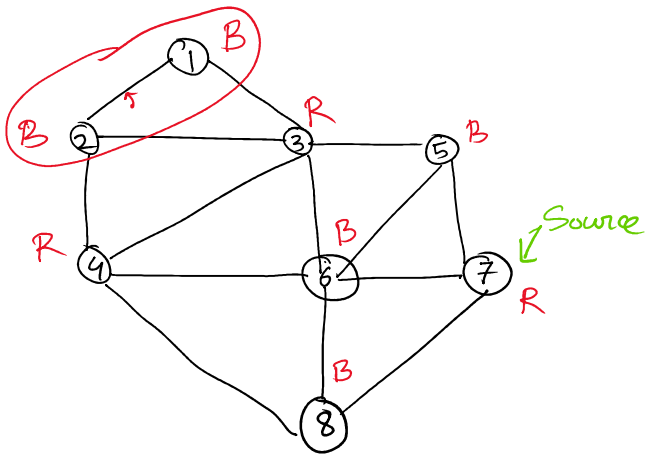


☑ Bi-Colorable



DFS Algo

1 2
1 3
3 4
2

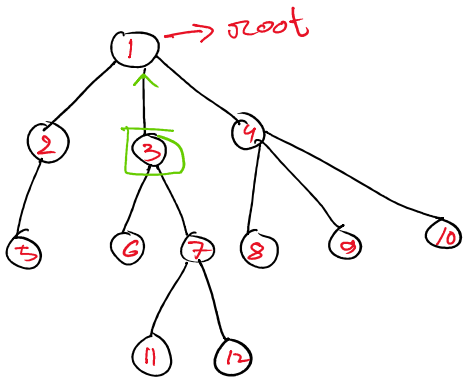


Q

Problem 7

1 → root

Problem 7



$\rightarrow$ L1

$\rightarrow$ L2

$\rightarrow$ L3

$\rightarrow$ L4

V E $< 10^5$

Q $< 10^5$

3 7 $\rightarrow$ Yes

4 10 $\rightarrow$ Yes

2 4 $\rightarrow$ No

9 1 $\rightarrow$ NO

T.C: $O(Q \cdot (V+E))$

time = 4

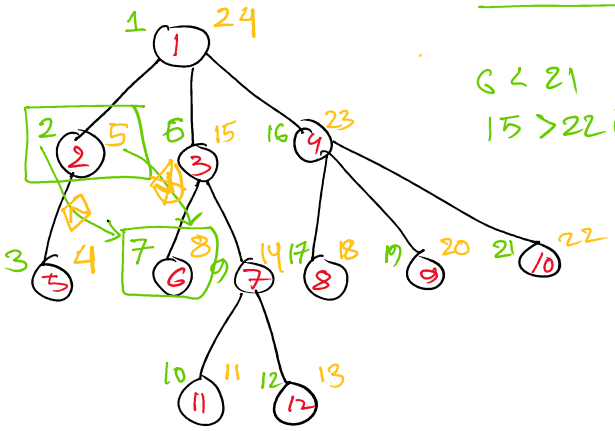
$6 < 21$

$15 > 22$ ✗

Time

$\rightarrow$ Discovery Time

$\rightarrow$ Finishing Time



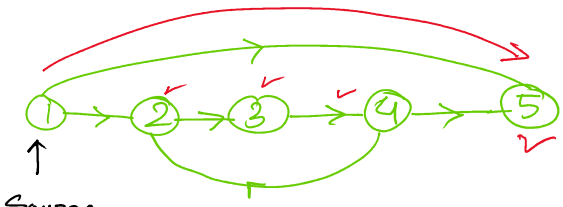
N	D.T	F.T
3	6	15
7	9	14

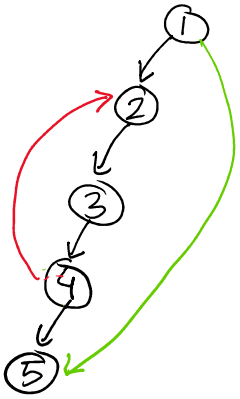
Problem 8

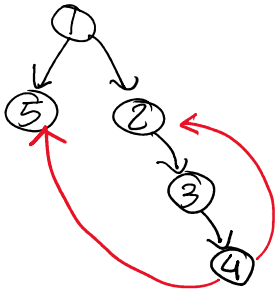
Tree Edge

Back Edge

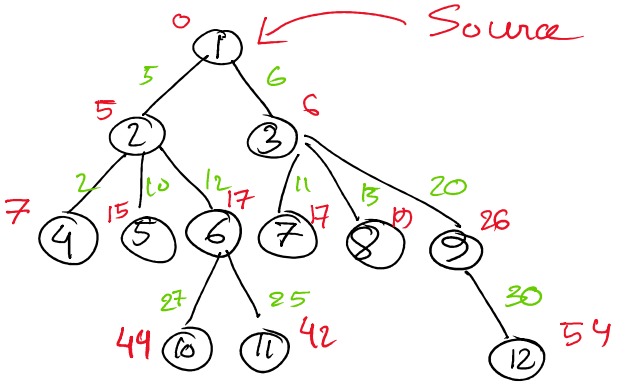
Forward Edge







Problem 10


Source
0
1
5
6
5
6
2
3
2
15
10
12
17
11
13
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17
10
26
4
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8
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27
25
30
44
42
54
10
11
12