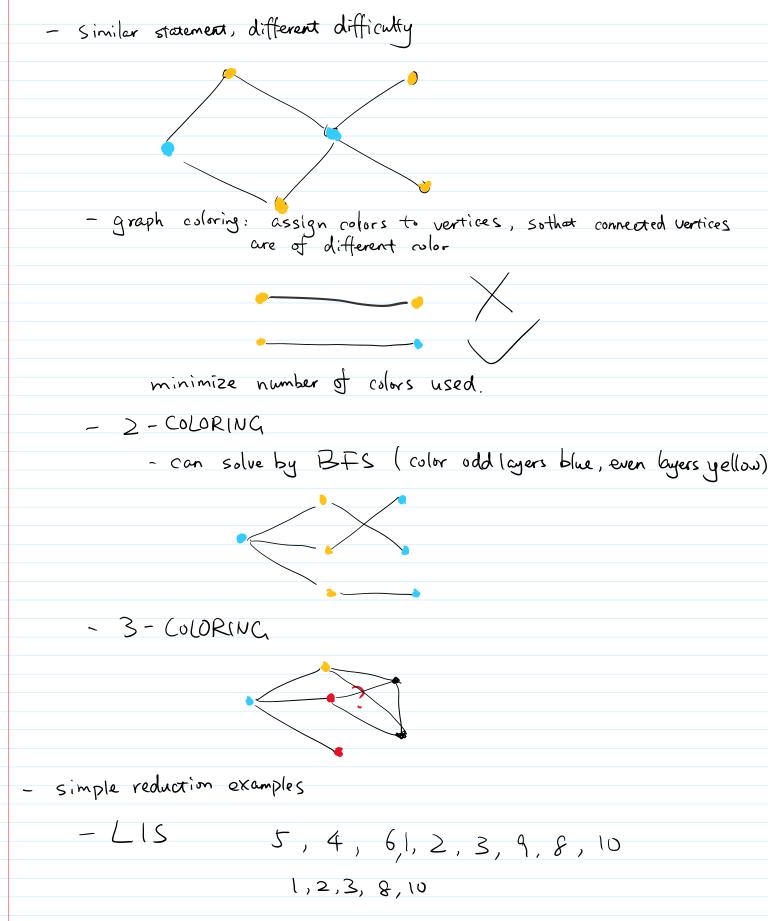
## Lecture 22 Complexity Classes, Reduction

Tuesday, November 28, 2017 2:41 PM



-LCS (2), 1, (3), 4, (6), (5) 2,3,6,5 (2), 3, 1,6, 5,4 - Given: solution to LCS L.CS(aī), bī) LIS(aT])bl= sort(a[]) return LCS (al) bij at] 5, 4, 6(0, 2), 3, 9, 8, (10)sort b(), (2, (3), 4, 5, 6, (2, 9, (0)) Can prove O: any Common subsequence of all, bill, is an increasily subseq. of all. (2) any increasing subseq of all is a common subseq. of all, bit. - Example of NP - Problem - 3 - COLORING. - Is there a way to color G using 3 colors? Νð Yes - Prover: answer Yes/No. if Yes, also give a coloring.