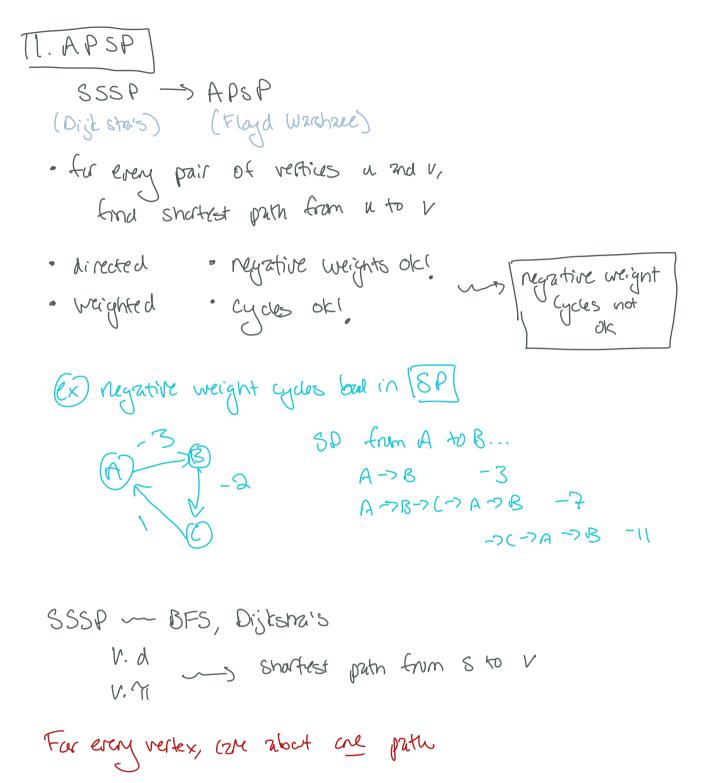
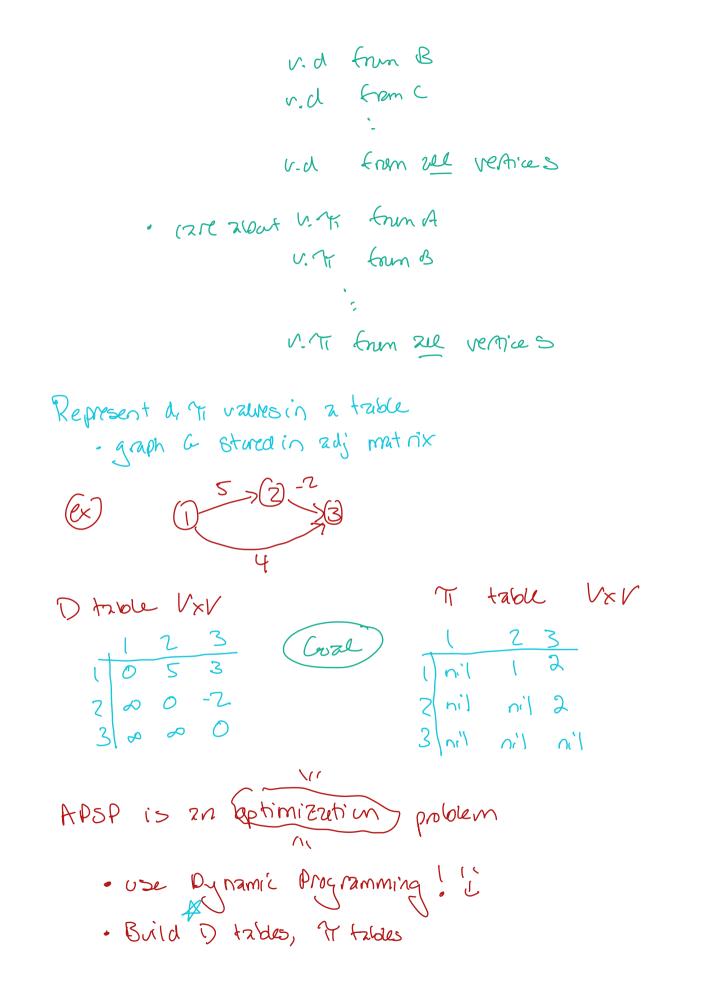
. V. 71 ~ predecessor vertex on shurtest path



Now... APSP For every vertex, we care about 11/ paths · (are about v.d frum A

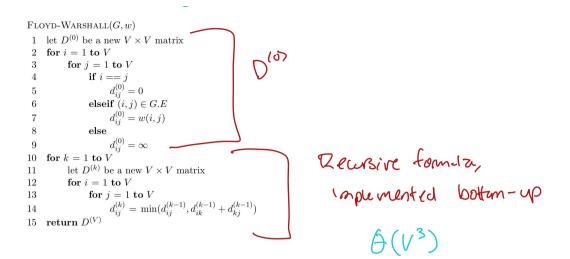


 $M^{(0)}$ trole (loose (22) $if(i,j) exists, T(i)^{(0)} = i$

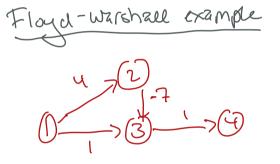
Recursive Formula -> Bottom-up (sde

$$d_{ij} = \min(d_{ij}, d_{ik} + d_{kj})$$

ls it better to go through k?



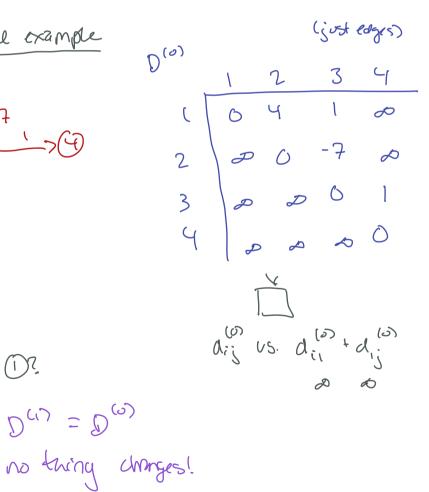
12:48



 $\mathcal{D}^{(n)}$

Can we do better

by going through (D?



[3. Exam + Second Chana HW · exam # 2]6/15 d-ning class · on proper · 8.5× Ilin chart sheet, one side * 90-min exam · Topics - DFS · zmartized · greedy · heapsort · BFS · topo · APSP • MOT · Dijsta (SOSP) · MAX flaw · Practice · protocems out Sat · solutions out mon/tres. Sgo through in recitation · Types of Questions · Unat would greedly choice be? greedy · argue it's aptimal · write pseudo call · Which greeny choice is befor?

- · any what does heapsort do?
- · Zgg. Zmilysis as sequence of n aperations
- · VS. Warst Case

Comph Questions

- · What does this do on this graph?
- modify known zigo to work an
 a different type of grouph or
 produce 2 different output
- · utility cou in the exam · write pseudocode to do something
- · un time of 2 given algorithm