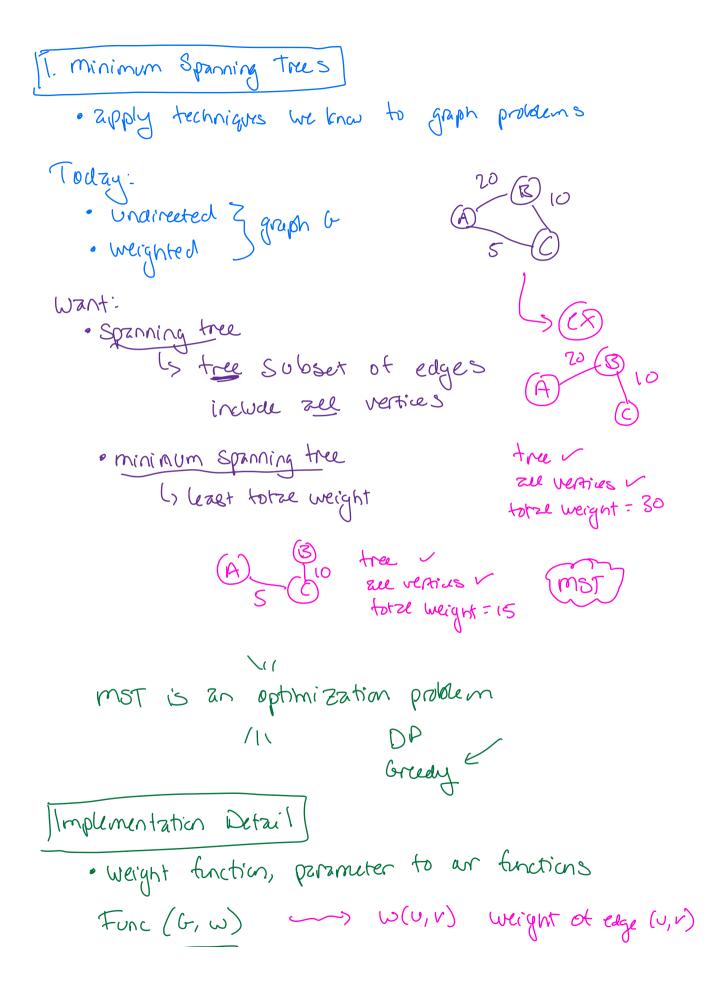
Recap  
DFS ~ 5 to pological 7.  
track the order in which we with dead ends  
(r.f)  
DFS ~ 5 determine if there's 2 cycle?  
if there's 2 back edge, there's 2 cycle  
DFS m-time  

$$\Theta(V+E)$$
 (pretty Good!)



<u>۹</u>

KUUSKAL(G, w)  
1 
$$A = \{\}$$
  
1  $A = \{\}$   
1  $A = \{\{\}, \{\}\}\}$   
1  $A = \{\{\}, \{\}, \{\}\}\}$   
1  $A = \{\{\}, \{A, \{\}\}\}$   
1  $A = \{\{\}, \{A, \{\}\}\}$   
1  $A = \{\{\}, \{A, \{A, \{A, B\}\}\}$   
1  $A = \{\{\}, \{A, \{A, B\}\}\}$   
1  $A = \{\{\}, \{A, \{A, B\}\}\}$   
1  $A = \{\{A, A, B\}\}$   
1  $A = \{\{A, B\}\}$   
1  $A = \{A, B\}\}$   
1  $A = \{\{A, B\}\}$   
1  $A = \{A, B\}\}$   
1  $A = \{A, B\}$   
1  $A = \{A, B\}$   
1  $A = \{A, B\}\}$   
1  $A = \{A, B\}$   
1  $A = \{A, B\}$   
1  $A = \{A, B\}\}$   
1  $A = \{A, B\}$   
1  $A = \{A, B\}\}$   
1  $A = \{A, B\}\}$   
1  $A = \{A, B\}$   
1  $A = \{A, B\}\}$   
1  $A = \{A, B\}\}$   
1  $A = \{A, B\}$   
1  $A = \{A, B\}\}$   
1

Prim 7 d 2 BCDEF A Key 0 e a 11 i will not not not not not f H = A (smalled) Step#1 C D EF A key 0 4 8 00 00 00 i hi A A n'i n'i n'i H = BCDEF Step #2 extract B ABCDEF Key 048700 i n. A A B nil nil H= LOEF Step #3 extract D key 0 y 87 2 ∞ I WIAAB D nil

