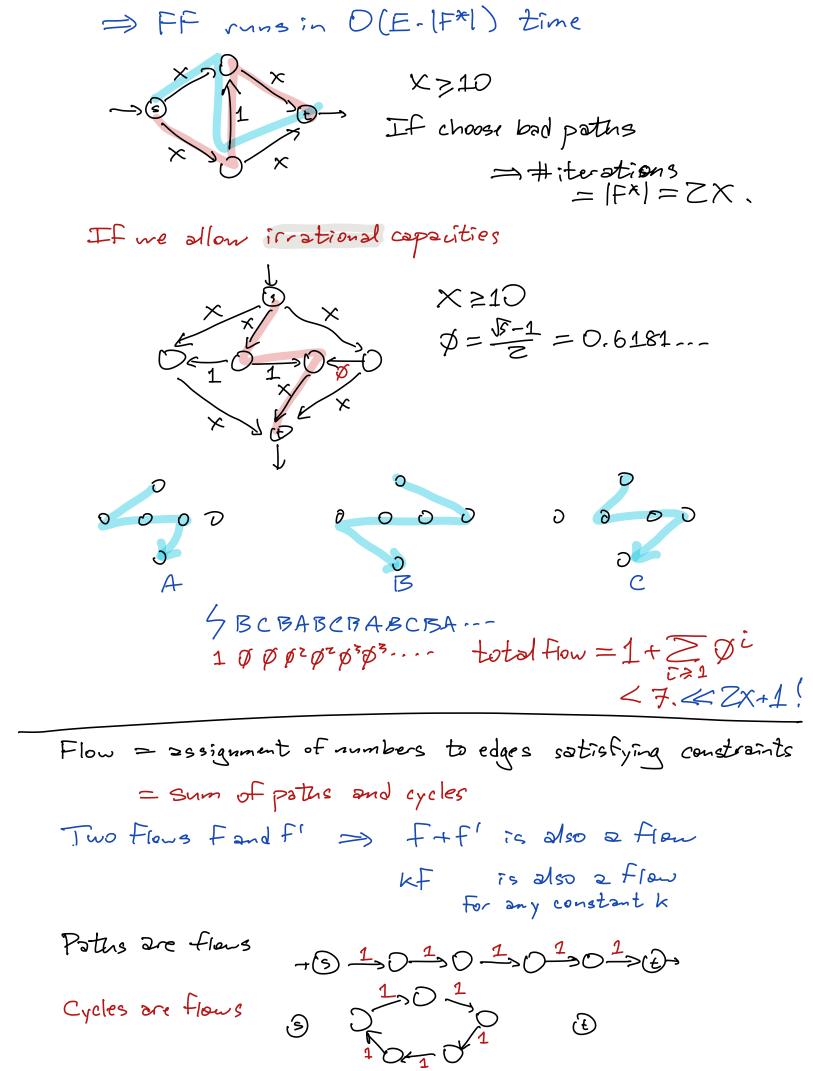
Max flows + min cuts  
Imput "flow network" directed graph G=(V,E)  
two votices s and t  
capacities ((U=N)=D  
Maximum flow  
Compute F:E=PIR 
$$\langle -F[U=v] \ge O - F(U=v) \ge O - F(U=v) \ge O - F(U=v) = \sum F(U=$$



Orlin 2012: O(VE) time upper bound Chenetal April 2022: O(E<sup>1+o(1)</sup> log U)