



CS 252

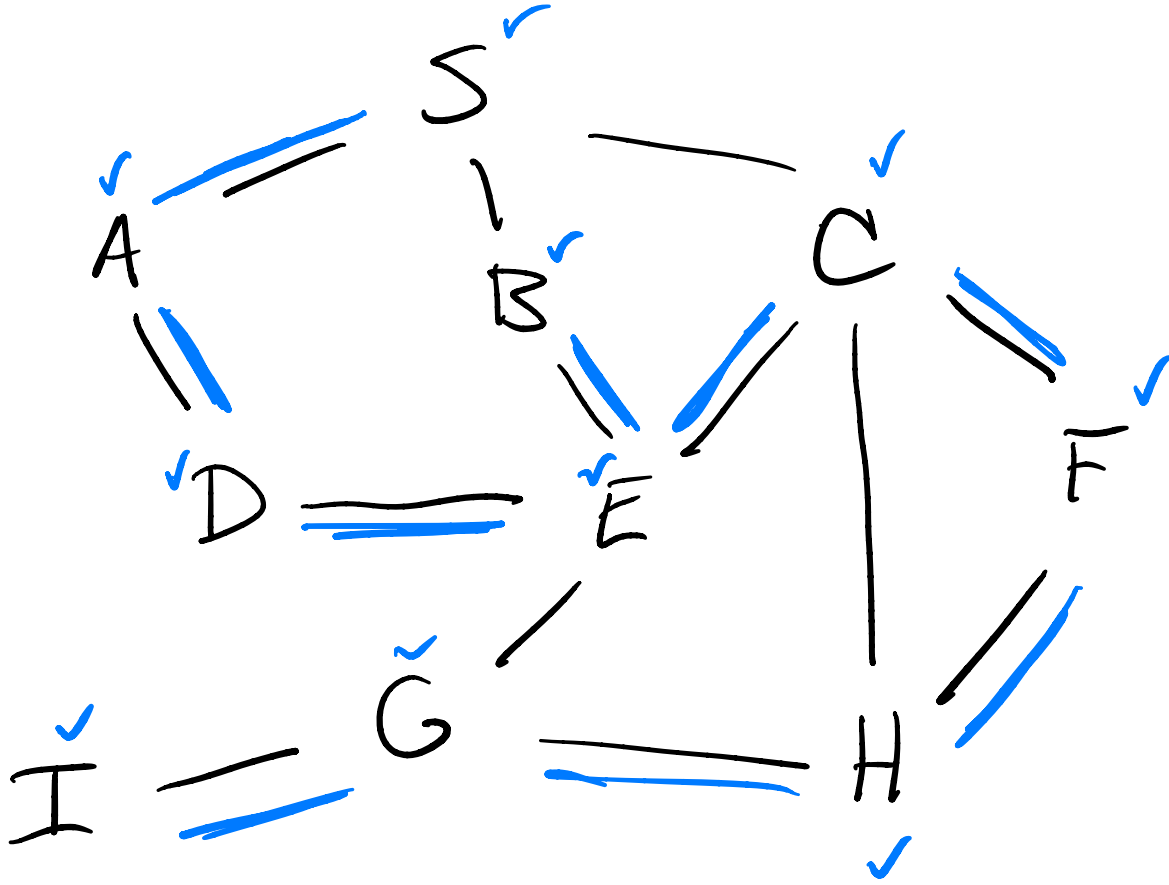
F, 12 April 2024

DFS

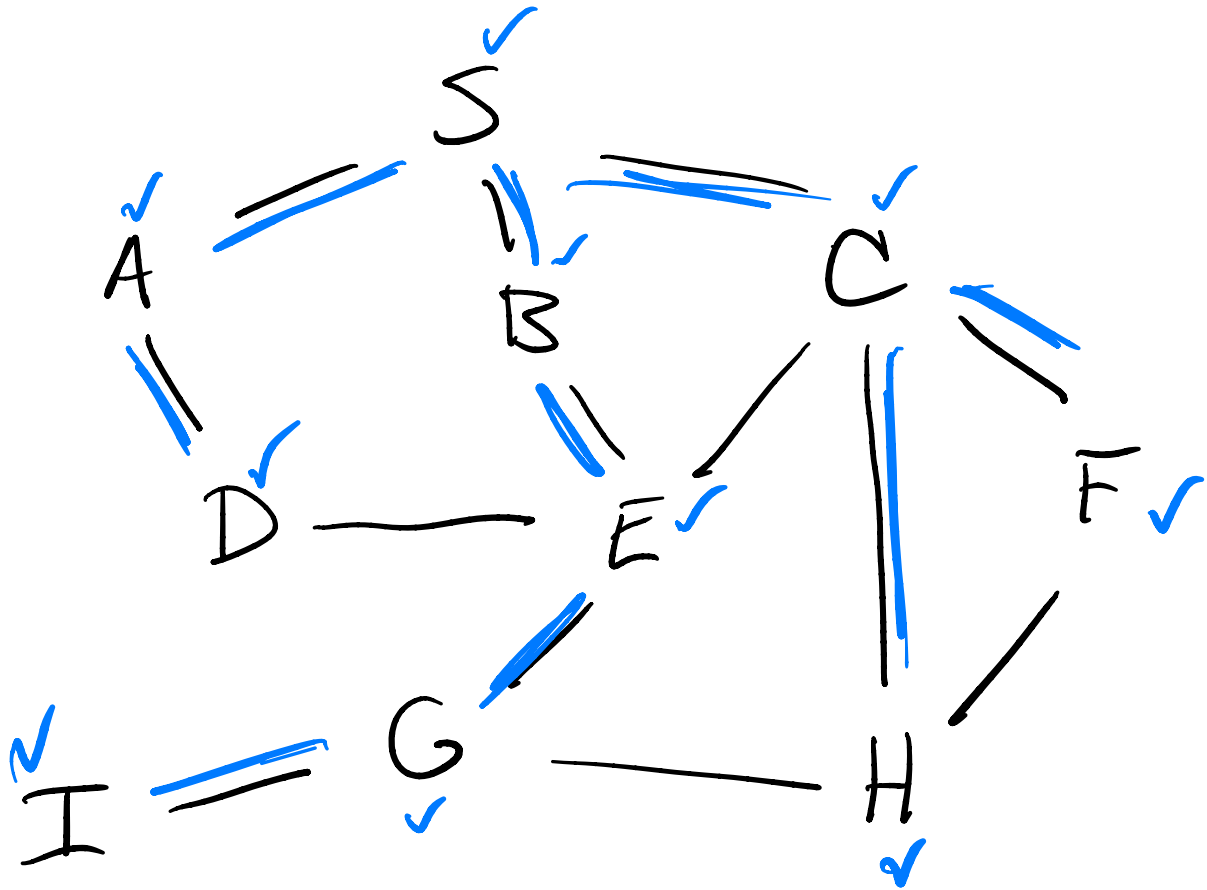
~~FI~~  
~~HC~~

~~BA~~  
~~CB~~

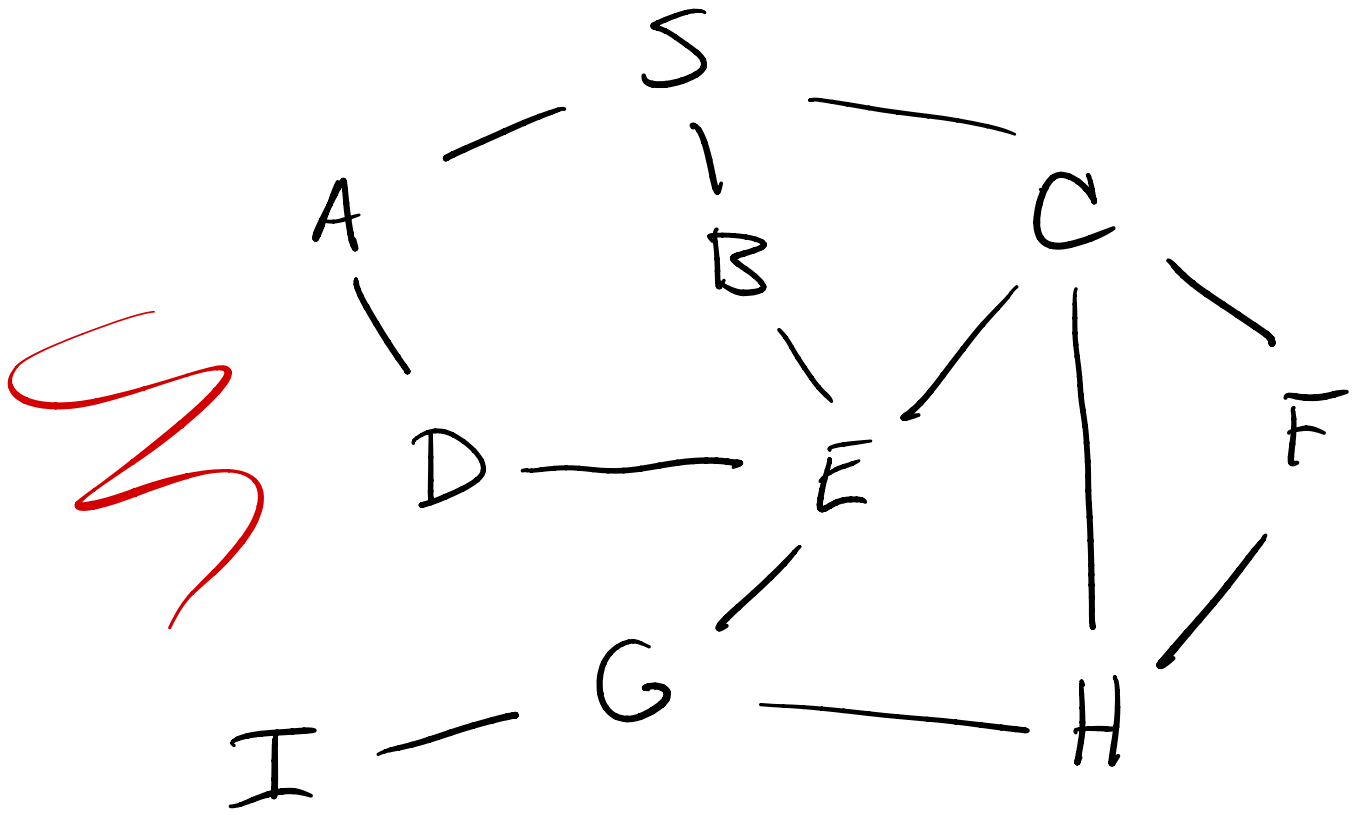
~~DA~~  
~~SA~~

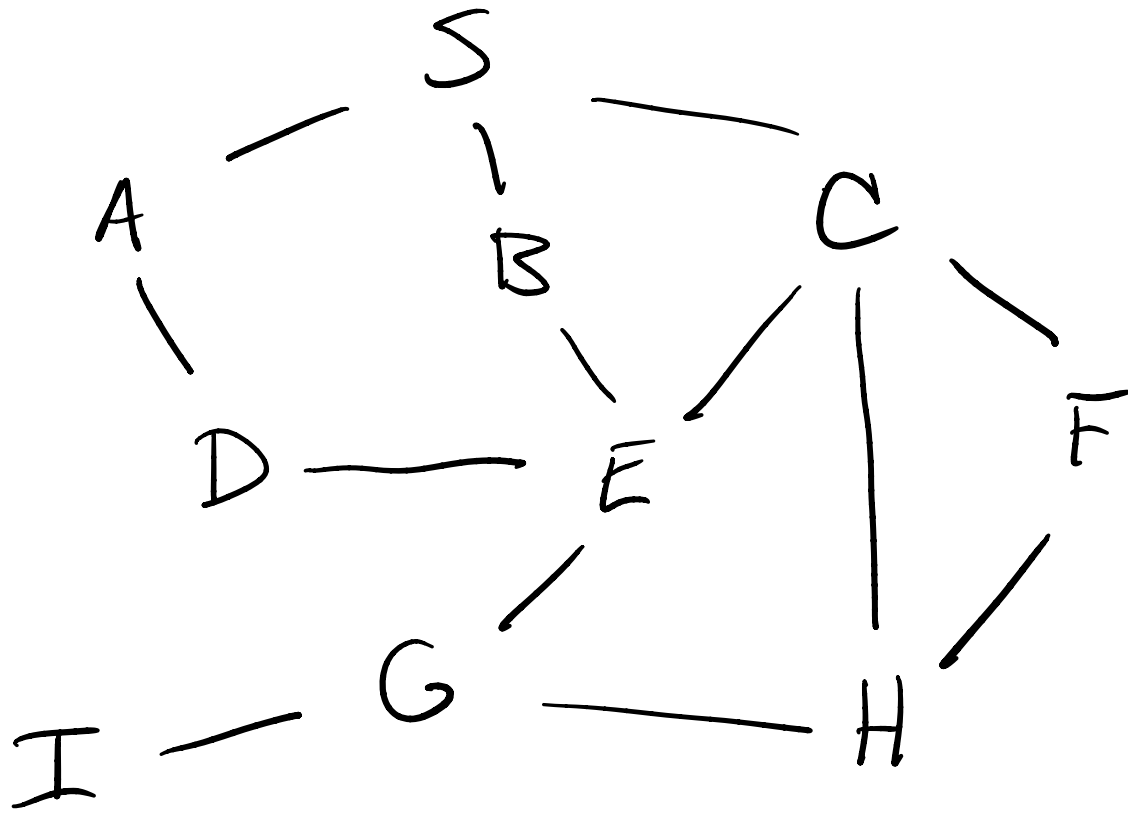


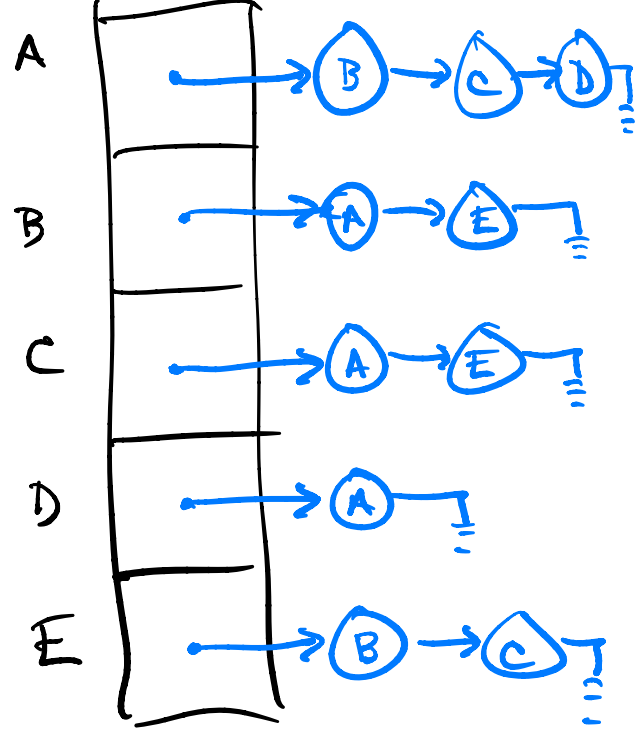
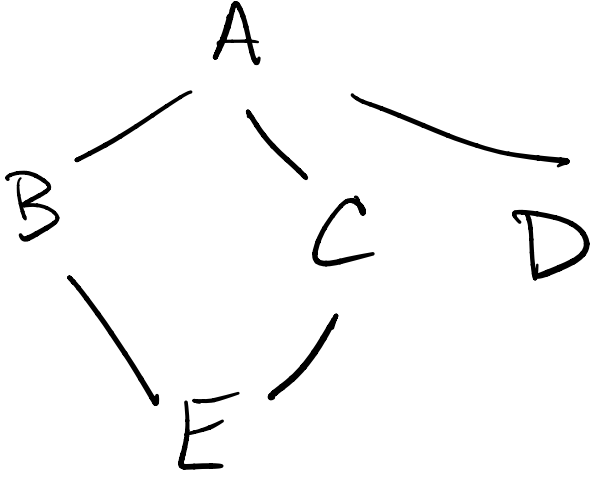
BFS



Queue: ~~S~~ ~~A~~ ~~B~~ ~~C~~ ~~D~~ ~~E~~ ~~F~~ ~~H~~ ~~G~~ ~~I~~

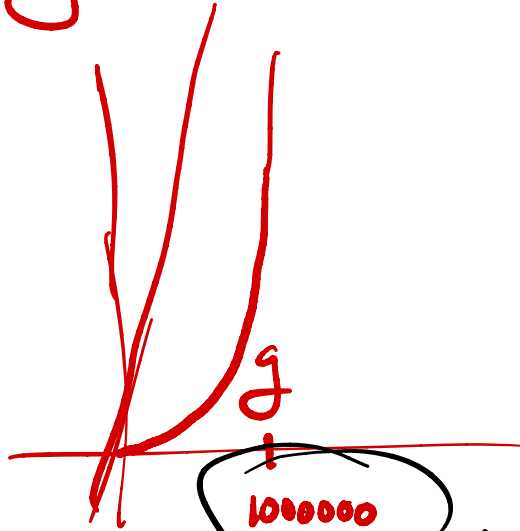






$$f(n) = 1000000n$$

$$g(n) = n^2$$



they meet



1 (a)

$$100 \log n = O(n^{1/4})$$

$$n^{1/4} = O(\quad)$$

$$4^n = (4^{n/4})^4$$

$2^n \quad 3^n \quad 4^n$

$$\Theta \begin{cases} 100 \log n \\ n^{1/4} \\ n + \log n \\ 4n + 2 \\ 4n \log n \\ n^2 + 2n \\ 4^{n/4} \\ 4^n \end{cases}$$

of each other

