Lecture 35

CSE 331 Nov 28, 2018

Quiz 2 on Monday

note 🕸	stop following	88 views
Quiz 2		
A gentle reminder that Quiz 2 is next Monday (Dec 3) 8-8:10am in class. The lecture will start at 8:15am.		
Some other comments:		
 Everything we would have covered till this Friday will be on the quiz There will be three questions: The first two will be T/F without justification (like Q1 on sample final (@975)) The third question will be T/F with justification (like Q2 on sample final (@975)) You can bring into two sheet of letter sized cheat-sheets (like the final exam) 		
iguiz2		
edit o good note 0	Jpdated 1 day ago	by Altri Rudra

Official Feedback forms

note 🖈		ste	op tollowing 97 views
Incentive for filling in course evals			
As I have done in the past few years, depending on the level of response on the the final exam. (See @975 to see what Q I mean below)	e official course e	vals, I will releas	e come questions on
 If >#85% students submit the course evals, I will release Q1(a) 			
 If >=90% students submit the course evals, I will release Q1(a) AND Q2(a))		
Some other relevant comments:	Fall 2018 CSE 331LR LEC		
 I will post the current response rate in the comments section below every The % is based on current student registered (236): i.e. it does not include I believe this is the link to the course evals: https://sunyub.smartevals.com 	Intro to Algorithms		
 But double check the email you might have received on this. 			
feedback	Begins: 11/23/2018	Ends: 12/9/2018	Released: 12/28/2018
edite accord note 1			070/
		·	21%
	Students re 64/236	esponded:	response rate

When to use Dynamic Programming



There are polynomially many sub-problems

OPT(1), ..., OPT(n)

Richard Bellman

Optimal solution can be computed from solutions to sub-problems

OPT(j) = max {
$$v_i$$
 + OPT($p(j)$), OPT(j-1) }

There is an ordering among sub-problem that allows for iterative solution

OPT (j) only depends on OPT(j-1), ..., OPT(1)

Shortest Path Problem

Input: (Directed) Graph G=(V,E) and for every edge e has a cost c_e (can be <0)

t in V

Output: Shortest path from every s to t





Today's agenda

Dynamic Program for shortest path

May the Bellman force be with you

