

Lecture 35

CSE 331

Nov 19, 2014

Two TODOs for Dec 1

note ★ 0 views Actions

Reminders on Quiz #2 and Mini project presentations

A gentle reminders about approaching deadline:

1. The Monday (Dec 1) after the fall break, we will have quiz #2 from 1-1:10pm
2. If you have a preference for the date of your mini project presentation (i.e. Dec 3 or Dec 5) you have to let me know by Dec 1 11:59pm of your choice. Otherwise I will assign your date arbitrarily on Dec 2 morning. See Section 3 of the mini project document for more details:
<http://www.cse.buffalo.edu/~atri/courses/331/handouts/mini-project.pdf>

mini_project quiz2

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Online OH tonight @8:45pm

☰ note ★0 views

Online OH #9 tomorrow at 8:45pm

We'll have the 2nd last online OH of the semester (the last one will be in last week of class) tomorrow from 8:45-9:45pm. Any and all 331 related questions are welcome.

Do not forget to tag your questions with the folder 'onlineoh9'

onlineoh9

Actions ▾

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Official Feedback forms

☰ note ☆ 0 views

Please fill in the official feedback form

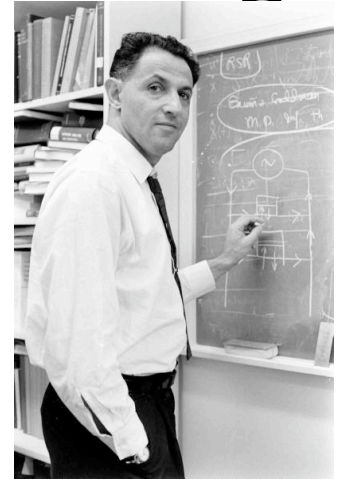
You must have received an email on giving feedback on CSE 331. Please do fill them in: the final feedback helps me improve how teach CSE 331.

logistics

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When to use Dynamic Programming

There are polynomially many sub-problems



Richard Bellman

Optimal solution can be computed from solutions to sub-problems

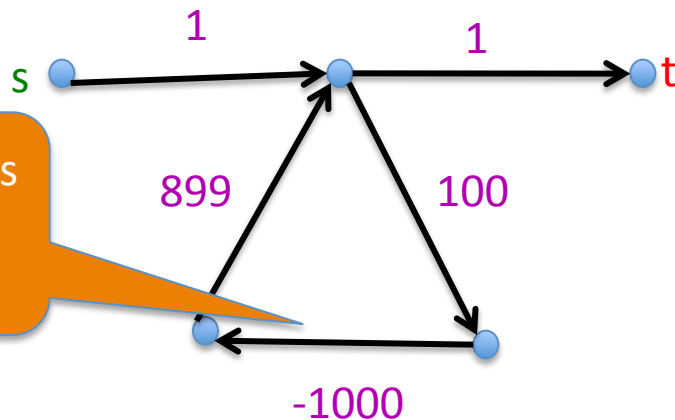
There is an ordering among sub-problem that allows for iterative solution

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



Shortest path has cost negative infinity

Assume that G has no negative cycle

Today's agenda

Dynamic Program for shortest path

May the Bellman force be with you

