

Lecture 33

CSE 331

Apr 22, 2020

Give feedback!

note @648 stop following 64 views

Feedback on CSE 331

Hi All,

I'm asking for your feedback about 331. I prepared a form with custom questions. Please do give feedback via this anonymous form: <https://forms.gle/qxp4XPfv2idLn6zj7>

Filling in this form is **completely optional and anonymous**.

In particular, I would love feedback (even if it is critical). I might also disagree with your feedback but after a week or so, I'll post my response to the feedback from y'all. So at the very least, y'all would get to hear my reasoning for why certain things are the way they are in CSE 331. And then we can agree to disagree :-)

Note that this is NOT the UB's course evaluation form; I'll use the results to improve the class this semester and in future offerings.

#pin

logistics

edit · good note | 0

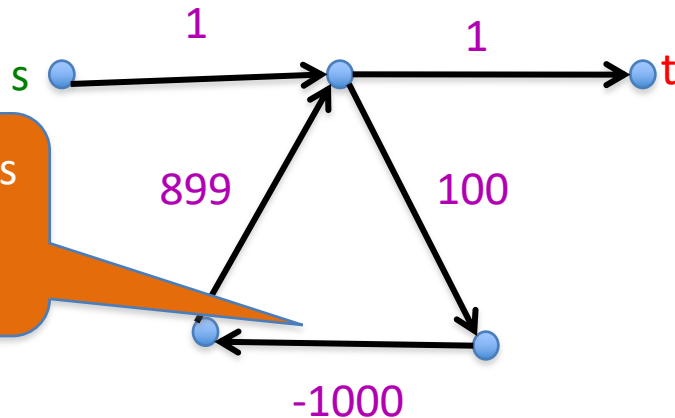
Updated 17 hours ago by A. Erdem Sariyuca

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

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

Today's agenda

Bellman-Ford algorithm