



Lecture 34

CSE 331


Nov 21, 2016

Sample final exam posted

 note 

stop following

28 views

Actions 

Sample final

I have posted a sample final:

<http://www-student.cse.buffalo.edu/~atri/cse331/fall16/exams/sample-final.pdf>

as well as its solution:

<http://www-student.cse.buffalo.edu/~atri/cse331/fall16/exams/sample-final-soln.pdf>

You can also access the above from the nav bar in the 331 webpage.

Some comments:

- Unlike the sample mid-term, this is an actual final exam from one of the previous offerings. You can expect your final exam to have similar level of difficulty
- Like the sample mid-term, the actual final exam have **exactly** the same format.
- Like the sample mid-term, you make deductions on the actual content of the final based on the sample final exam at your own peril.

I will put up a post on how to prepare for the final exam after the fall break.

#pin

Quiz 2 in two weeks

☰ note ★stop following **7** views

Quiz 2 in two weeks

A gentle reminder that quiz 2 will be in class on **Monday, December 5** from **1-1:10pm**.

The first two questions will be T/F without justification (so like two from Q1 on sample final- [@735](#)) and the third question will be T/F with justification (so like one from Q2 on sample final- [@735](#)).

#pin

quiz2

edit · good note | 0Updated 14 minutes ago by Atri Rudra

Official Feedback forms

note ☆

1 views

Actions ▾

Incentive for filling in the course evaluations

You must have received an email about filling the course evaluation forms. I believe this is the link:

<https://buffalo.campuslabs.com/courseeval/>

Taking a leaf out of Geoff's playbook, here is my offer to incentivize you guys filling in the course evaluation form:

- If **at least 85%** of you fill in the course evaluation form, then I will release one T/F (without justification) question on the final exam (which corresponds to Q1(a): see @735 for the format).
- If **at least 95%** of you fill in the course evaluation form, then I will release one T/F (without justification) question and one T/F (with justification) question (corresponding to Q1(a) and Q2(a) respectively: see @735 for the format).

Of course if $< 85\%$ of you fill in the course eval form, then no question gets released. The current percentage of you who have filled in the course evals is **3%** (so a bit to go). I will post weekly updates on the response rate.

Couple of requests:

- Please do let me know (via comments in the course evals) what you think I could do to improve CSE 331 for future students;
- Please let me know what worked well (or not) for you Autolab and other aspects of the CSE 331 webpage.

final logistics

CS Ed week (Dec 5)

We'll need
volunteers!

We need
demos!

Celebrate
CSEDWEEK

with the Department of Computer
Science and Engineering at UB:
Children K-12 are invited to:

KID'S DAY

Monday, Dec. 5 | Davis Hall, UB

**HANDS-ON ACTIVITIES, LIVE
DEMOS, ROBOTS & MORE!**

When to use Dynamic Programming

There are polynomially many sub-problems

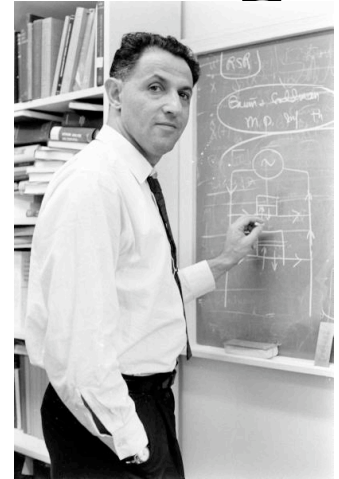
$$\text{OPT}(1), \dots, \text{OPT}(n)$$

Optimal solution can be computed from solutions to sub-problems

$$\text{OPT}(j) = \max \{ v_j + \text{OPT}(p(j)), \text{OPT}(j-1) \}$$

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

$$\text{OPT}(j) \text{ only depends on } \text{OPT}(j-1), \dots, \text{OPT}(1)$$



Richard Bellman

Scheduling to min idle cycles

n jobs, i^{th} job takes w_i cycles

You have W cycles on the cloud



What is the maximum number of jobs you can schedule?

Today's agenda

Dynamic Program for Subset Sum problem

May the Bellman force be with you

