#### Lecture 29

**CSE 331** 

Nov 9, 2016

#### Mini project video due next Mon



note n

stop following

126 views

#### Actions \*

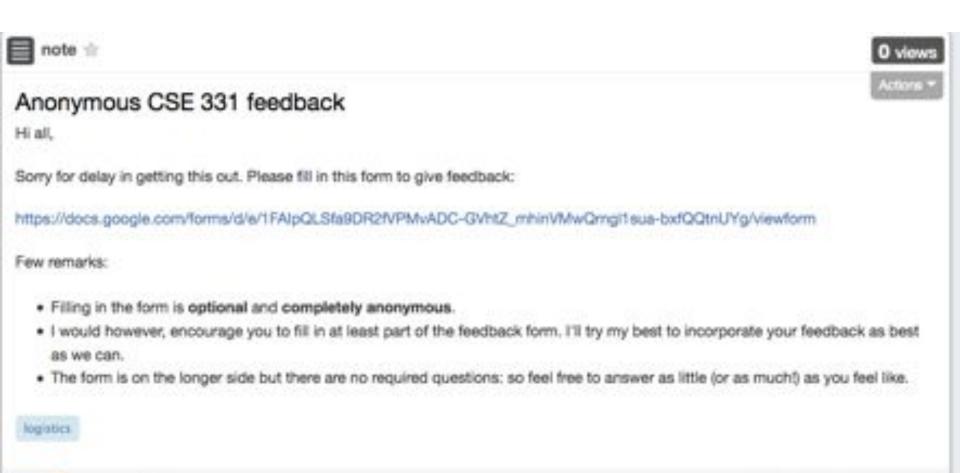
#### Mini project video

Sorry for the delay in posting this information. For the basics, please see the mini-project page.

Below are the main logistics. IT IS IMPORTANT TO READ THESE CAREFULLY SINCE NOT FOLLOWING INSTRUCTION COULD LEAD TO LOSS OF ALL POINTS.

- The deadline is Monday, November 14, 11:59pm. You can start submitting on Autolab anytime from now till the deadline.
- You will need to need to form your group on Autolab again for this submission. See \$304 for instructions on how to do it.
  - Very important: Please make sure you submit your group's submission after the group has been formed. If this is not done,
    the entire group will get a zero.
    - No excuses on this— make sure you do this group formation well in advance. If you cannot reach one of your group members at the last moment, then that is your problem.
- You will need to submit a PDF with the following information:
  - . Link to the your group's video on Youtube
    - The video has to be for AT MOST FIVE (5) MINS. While grading anything beyond the 5 min mark will be completely ignored. Of course a shorter video is finel.
  - If you would prefer your groups video to be not listed on this page, please add in an explicit sentence saying so. By default, all videos will be linked to on the above page.
  - If you submit in a format other than PDF then your group will get a zero. Also make sure to preview the submitted PDF to double-check that Autolab can actually read your submitted file.

## Anonymous feedback

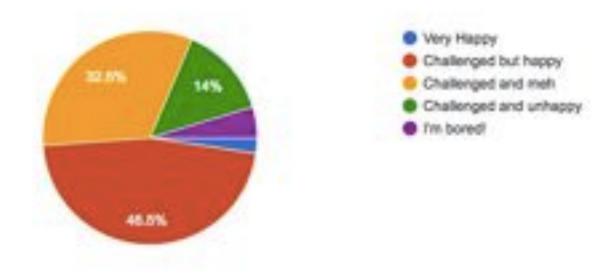


Updated Just now by Alrt Rudra

good note 0

#### Thanks for responses so far!

Overall your feeling about CSE 331 (43 responses)

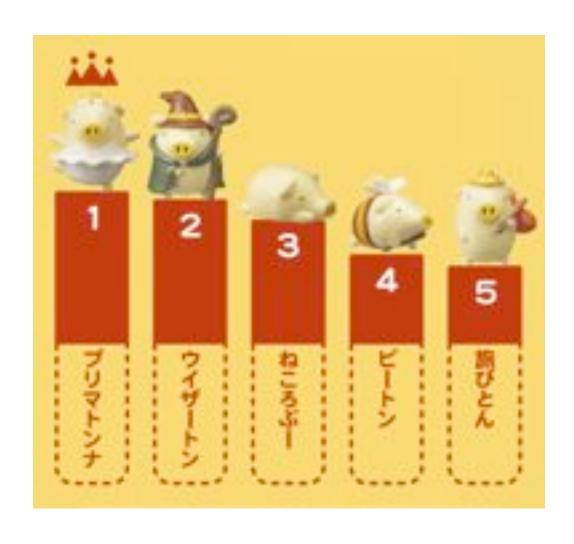


Detailed response at the end of the week

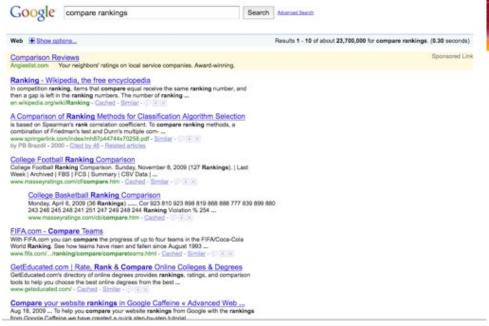
### HW 5 grading

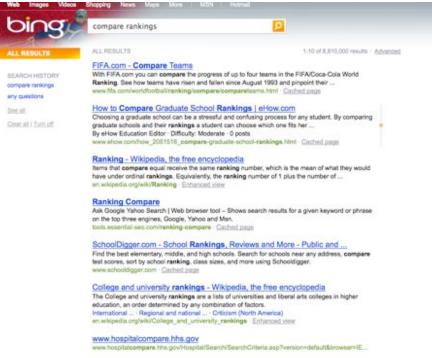
Should be done by today

# Rankings



### How close are two rankings?





### Rest of today's agenda

Formal problem: Counting inversions

Divide and Conquer algorithm

#### Divide and Conquer

Divide up the problem into at least two sub-problems

Recursively solve the sub-problems

Solve all sub-problems: Mergesort

Solve some sub-problems: Multiplication

Solve stronger sub-problems: Inversions

"Patch up" the solutions to the sub-problems for the final solution

#### Mergesort-Count algorithm

Input: a<sub>1</sub>, a<sub>2</sub>, ..., a<sub>n</sub>

Output: Numbers in sorted order+ #inversion

