

Lecture 28

CSE 331

Nov 7, 2018

Peer evaluation due TONIGHT

note ☆

stop following 108 views

Peer evaluation for mini project (please)

Peer evaluation for mini project is now live on Autolab. Please check the background on this.

We are doing this for the first time in CSE 331 and it's a bit. So we would really appreciate it if y'all could submit the video and can answer the questions, make sure there are no bugs etc.

Make sure to check this out to make sure your group is recorded correctly

Some important remarks:

- There is some checking being done on Autolab regarding your input (specifically the UBIT IDs of your group mates) but you will not see any of those when you fill in the form, which is static.
 - Please be sure to check the feedback (by clicking on numbers like you usually do for Q1) to see if there are any issues.
- If one of your group-mates have dropped, please test out the system by FRIDAY and let me know if you still have a member showing up in the feedback who should not be there. The start of the feedback will list the UBIT IDs of your group mates.
 - I will be checking the feedback but I'm pretty sure you have no bugs etc.
- You will not see the feedback.
 - If you have any questions, please email me.
- The scores that you see are NOT your final scores.
 - Your final score on the survey part will be unharded manually later on in the semester

Assigning everyone the highest score will not fetch you 100% score.

Mergesort algorithm

Input: a_1, a_2, \dots, a_n

Output: Numbers in sorted order

```
MergeSort( a, n )
```

```
  If  $n = 1$  return the order  $a_1$ 
```

```
   $a_L = a_1, \dots, a_{n/2}$ 
```

```
   $a_R = a_{n/2+1}, \dots, a_n$ 
```

```
  return MERGE ( MergeSort( $a_L, n/2$ ), MergeSort( $a_R, n/2$ ) )
```

Correctness

Input: a_1, a_2, \dots, a_n

Output: Numbers in sorted order

MergeSort(a, n)

If $n = 1$ return the order a_1

$a_L = a_1, \dots, a_{n/2}$

$a_R = a_{n/2+1}, \dots, a_n$

return MERGE (MergeSort($a_L, n/2$) MergeSort($a_R, n/2$))

By
induction
on n

Inductive step follows from correctness of MERGE

Rest of today's agenda

Analyze runtime of mergesort algorithm