

# Introduction to Computer Systems

15-213/18-243, spring 2009

21<sup>st</sup> Lecture, Apr. 2<sup>nd</sup>

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# Announcements

## ■ Exam

- Next Tuesday
- Covers: Ch 5–8, 10.1–10.8
- Next recitations: answering your questions

## ■ Malloclab

- Due April 16<sup>th</sup>
- 150 points
- Can be done in teams of 2 (recommended to reduce workload)
- Has a check point

# Today

- **Memory related bugs**
- **System level I/O**
  - Unix I/O
  - Standard I/O
  - RIO (robust I/O) package
  - Conclusions and examples