

## Overview of Mid-Term Exam

* Syllabus
- Everything covered in class until now
- Read lecture notes and text book
* Open book exam ${ }^{-}$
- Text book
- Lecture notes
- Calculator
- You should not use anything else
$\star 20 \%$ of your overall grade


## Logistics

## Breakdown of Points

* Evaluation of Relational Operators ( $\sim 25 \%$ )
* B17 Upson Hall (in the basement)
* Roughly equal weight to remaining topics ( $\sim 75 \%$ )
- ER Model
- Relational Model
* You should be in your seats by 7:25pm
* 2 hour exam
- Relational Algebra
- Relational Calculus
- SQL
- Disks, Files, File Organizations
- Tree Structured Indices
- Hash Indices
- External Sorting

Tips (or How do I Ace the Mid-Terne?

* Thoroughly read and understand material
- Lecture notes
- Text book
* Practice questions
- Assignments
- Exercises in back of text book, solutions linked off course web page
* Remember, open book doesn't mean you don't have to study
- Not studying is probably the biggest mistake you can make (How NOT to Ace the Mid-Term!)
- Questions such that notes and book will be of no use unless you already know material very thoroughly


## Academic Integrity

* No cheating will be tolerated
* Violations taken very seriously
- Definitely a zero on the mid-term
- In addition, will prosecute to the maximum extent possible

Overview of Remainder of Class

* Discuss some issues that people were confused about
* Answer questions of "general interest"
* TAs will hold additional question-answer session during CS433 class
- Can ask specific questions to individual TAs there



## Block Nested Loops Join

* Use one page as an input buffer for scanning the inner S, one page as the output buffer, and use all remaining pages to hold "block'" of outer R.
- For each matching tuple $r$ in R-block, $s$ in S-page, add $<\mathrm{r}, \mathrm{s}>$ to result. Then read next R-block, scan S, etc.


