CS3223 Lecture 11b
Briefing on Final Exam

Final Exam

- Date: **April 28 (Friday, 9-11am)**
- Duration: 2 hours
- Venue: Refer to Edurec
- Weightage: 40% of final grade
  - Maximum score for exam paper is 80 marks
- Closed-book exam (allowed one A4-sized double-sided sheet of notes)
  - Notes can be handwritten and/or printed

What to bring?

- Student card
- One A4-sized double-sided sheet of notes (can be written and/or printed)
- Electronic calculator
  - You're not allowed to use your mobile phone or borrow calculator from others during the test
- Pencils, erasers, & pens
  - MCQ/MRQ questions should be answered using pencil
- Do not bring your own scratch papers
  - Scratch papers will be provided

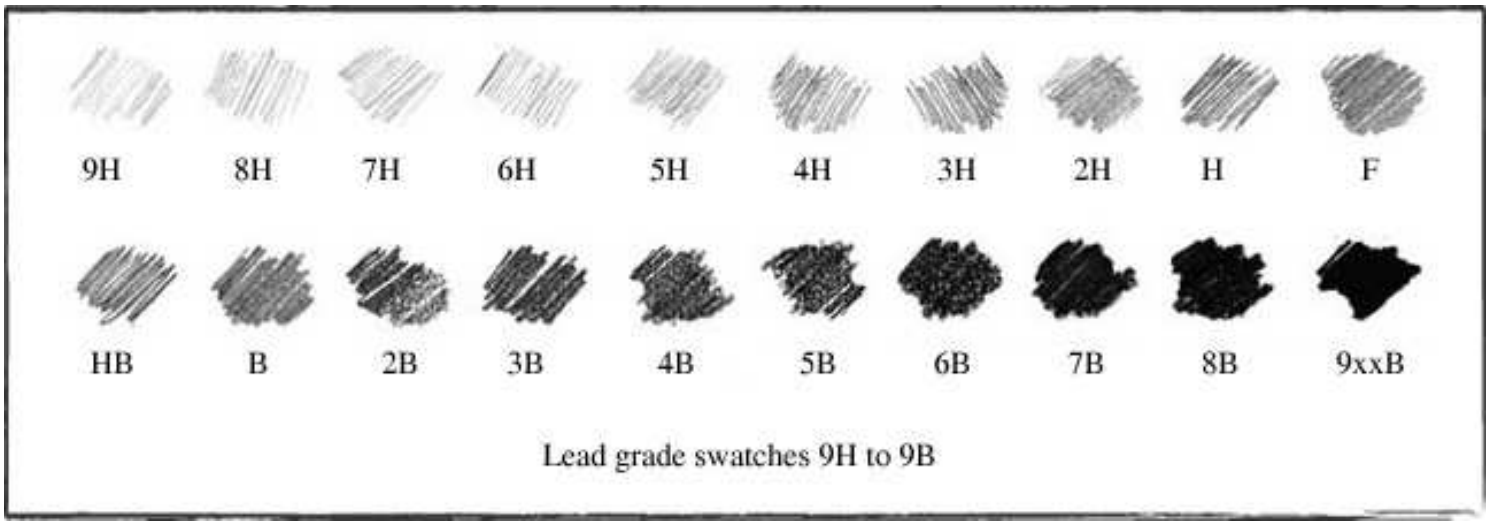
Exam Topics

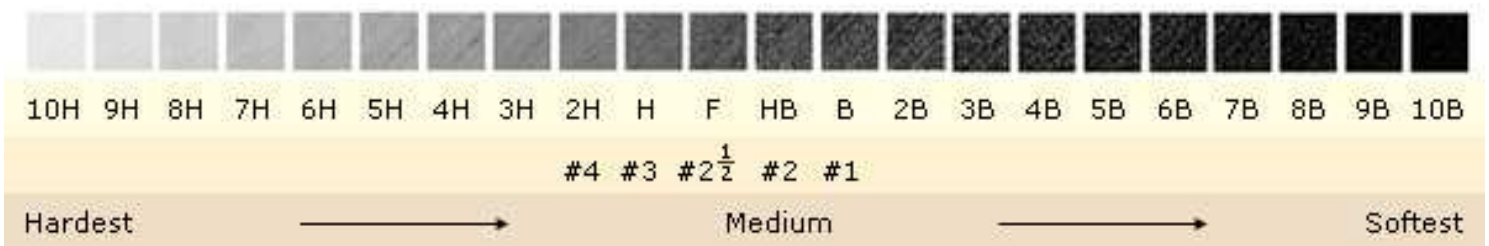
- The scope of the exam includes all the following topics:
  - Lecture 4: Sorting & Selection
  - Lecture 5: Projection & Join
  - Lecture 6: Query Evaluation & Optimization
  - Lecture 7: Transaction Management
  - Lecture 8: Concurrency Control
  - Lecture 9: Multiversion Concurrency Control
  - Lecture 10: Crash Recovery
- Although lectures 1 to 3 are excluded from the scope, knowledge of storage & indexing is still required (e.g., cost model for index-based evaluation of relational operators)

Exam Questions

- The test consists of three types of questions
- Multiple Choice Questions (MCQs)
  - Choose exactly one choice
  - Example: Choose the most appropriate statement ...
- Multiple Response Questions (MRQs)
  - Choose one or more responses
  - Example: Select all the statements that are true about ...
- Short Questions
  - Questions that require explanations, calculations, short answers, etc.
- Answers for MCQs & MRQs will be scanned and auto-graded

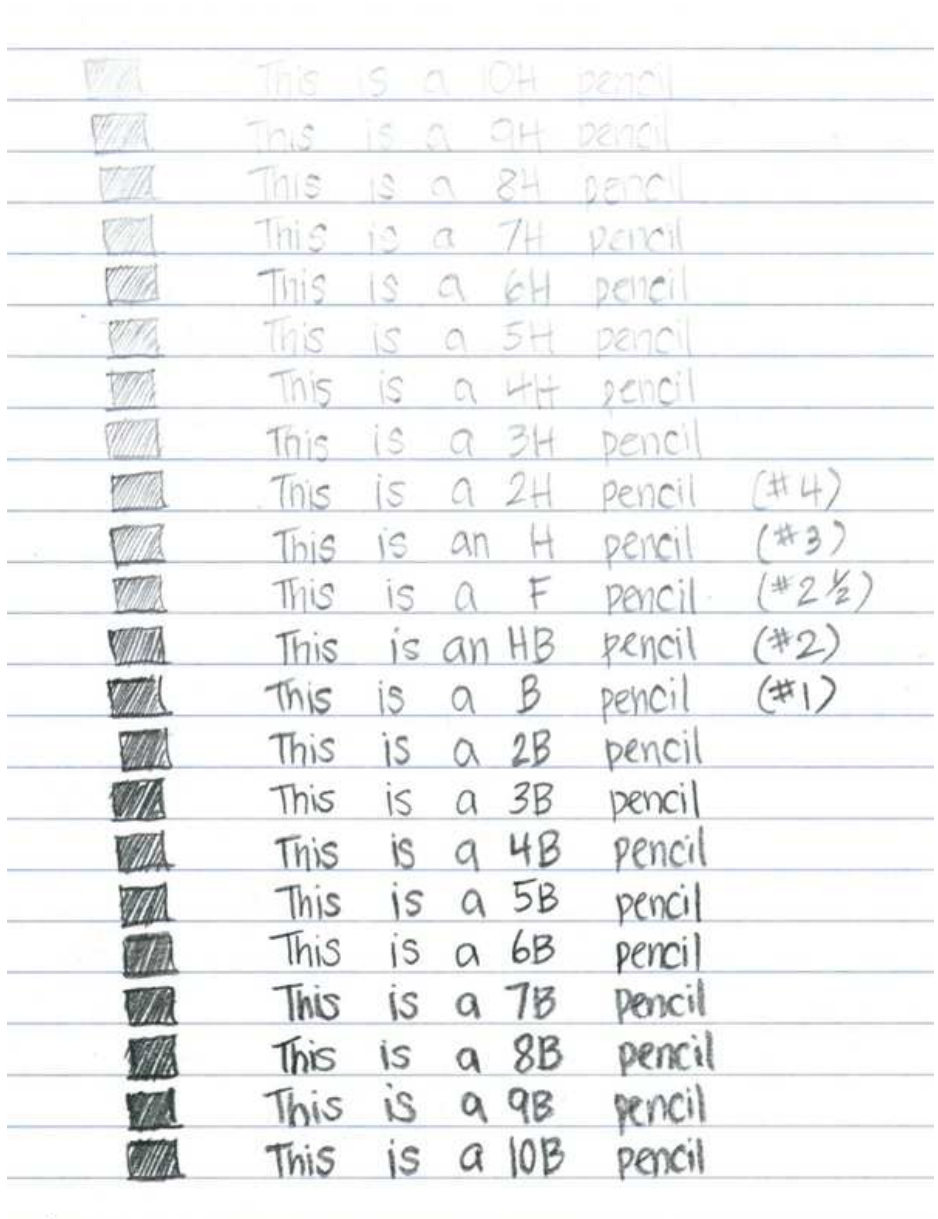
Choosing the right pencils





Source: pencils.com

http://www.jetpens.com/blog/picking-the-perfect-pencil-lead-hardness-grade/pt/475



Inappropriate Responses

A. Let **L** denote the number of leaf pages in I_{DB} accessed by the evaluation of Q using I_{DB}.

Select the most **appropriate** statement about L.

- ○ L = 20.
- ○ L = 40.
- ○ L = 50.
- ○ L = 60.
- ○ L = 100.
- ○ L = 200.
- ○ L = 400.
- ○ L = 4000.
- ○ All of the above statements are false.

Inappropriate Responses (cont.)

Select **all** the statements that are true about T'.

- ○ The total number of internal nodes in T' is 1.
- ✓ The total number of internal nodes in T' is 2.
- ✗ The total number of internal nodes in T' is 3.
- ○ The total number of internal nodes in T' is at least 4.
- ○ The total number of leaf nodes in T' is 2.
- ○ The total number of leaf nodes in T' is 3.
- ✓ The total number of leaf nodes in T' is 4.
- ✗ The total number of leaf nodes in T' is 5.
- ○ The total number of leaf nodes in T' is 6.
- ○ The total number of leaf nodes in T' is at least 7.
- ✗ There is a leaf node in T' consisting of only one data entry 103^*.
- ✓ There is a leaf node in T' with data entries 102^* and 103^*.
- ○ There is a leaf node in T' with data entries 103^* and 105^*.

pls follow answer using this pen.

Exam Attendance

- Attendance will be taken using **Exam Attendance System (EAS)**
  - Ensure that you've installed the uNivUS app on your mobile phone
  - `https://univus.nus.edu.sg/`
- Connect your phone to NUS Wi-Fi
- Scan the exam's QR code using uNivUS app
  - Exam's QR code will be displayed at the exam venue