

## Midterm Review

CSE421  
B.Ramamurthy

2/20/2004

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## Exam Date

- ◆ Feb 25, 2004
- ◆ Please bring
  - calculators
  - 1 A4-size sheets of any information you may need.
  - Pencils, pens and erasers.

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## Topics

- ◆ Nachos: Roadmap
- ◆ Project 1
- ◆ Operating System Structures: Chapter 3
- ◆ Processes: Chapter 4
- ◆ Threads including Nachos Threads: Chapter 5
- ◆ CPU Scheduling: Chapter 6
- ◆ Mutual Exclusion, Synchronization and Inter-Process Communication models: Chapter 7
- ◆ Class notes on all the chapters

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## Specific Sections

- ◆ Ch.3: 3.1-- 3.3
- ◆ Ch.4: 4.1 -- 4.4
- ◆ Ch.5: 5.1 – 5.3, nachos threads
- ◆ Ch.6: 6.1 – 6.4
- ◆ Ch.7: 7.1 – 7.6
- ◆ For all the chapters also study the class notes which is available on line
- ◆ Nachos: Syscall API esp. file system API that you designed and Exception handling

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## Format

- ◆ 5 major questions 20 points each; may have many subsections.
- ◆ Each question may have many subsections.

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## Tentative Question Topics

- ◆ System call (Nachos)
- ◆ Process Scheduling
- ◆ IPC models: Producer/Consumer, Reader/writer, etc.
- ◆ Synchronization at various levels: semaphores, barriers
- ◆ Thread description and control (Nachos) and Process description and control

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