

Review for Midterm #2

- Memory Management
 - Virtual Memory with Paging
 - Page Table with Hardware Support
 - Translation Look-Aside Buffer
 - Page Table Structure
 - Shared Pages
 - Multilevel Page Table
 - Hashed Page Table
 - Inverted Page table

Review for Midterm #2

- Memory Management
 - Page Replacement Algorithms
 - Optimal Algorithm
 - Not Recently Used
 - First Come First Out
 - Second Chance
 - Least Recently Used
 - Modeling Page Replacement Algorithm
 - Belady's Anomaly
 - Stack Algorithm
 - Model for Stack Algorithm
 - Property of Stack Algorithm

Review for Midterm #2

- Memory Management
 - Design Issues for Page System
 - Local versus Global allocation Policies
 - Page size
 - Segmentation
 - Segmentation Implementation
 - Advantage of Segmentation
 - Protection
 - Sharing
 - Segmentation with Paging
 - Segmentation with Paging (MULTICS)

Review for Midterm #2

- File System
 - File Name
 - File Structure
 - File Types
 - File Access
 - File Attributes
 - File Operation
- Directories
- Directory Operations
- File System Layout
- Implementing File
 - Contiguous Allocation
 - Linked List Allocation
 - Linked List Allocation with File Allocation Table
 - Index-Node

Review for Midterm #2

- Shared File
 - Save i-node index
 - Symbolic link
- Log-Structured File System
- Disk Space Management
 - Block size
 - Free block management
 - Linked List
 - Bit Map

Review for Midterm #2

- File System Backup
 - Physical Backup
 - Logical Backup
- Deadlocks
 - Resources for a Process
 - Deadlock Condition
 - Resource Allocation Graph
 - Four Strategies for Dealing Deadlock

Review for Midterm #2

- Deadlock Detection and Recovery
 - Detection with one resource of each type
 - Detection with Multiple resource of each type
 - Deadlock Detection Algorithm
 - Recovery from Deadlock

Review for Midterm #2

- Deadlock Avoidance
 - Safe and Unsafe state
 - Banker's Algorithm
- Deadlock Prevention
 - Attack Mutual Exclusion
 - Attack Hold and Wait
 - Attack No-Preemption
 - Attack Circular Wait