COS Questions – Lecture 5

Operating System Concepts (Tenth Edition)

Memory Management

9.1 What is memory access violation? Where and how is it implemented?

9.2 How is a variable is located in memory? Can a variable have an absolute location?

9.3 What is the difference between physical and logical addresses? How are these managed and why are logical addresses needed?

9.4 What is dynamic loading?

9.5 What are dynamically linked libraries? How are global/static variables treated?

9.6 How is a process allocated memory (the three fitting methods)? What is a hole? What happens if there is no memory available?

9.7 What is external fragmentation? How can it be remedied?

9.8 Briefly describe how paging works. Why is it beneficial?

9.9 What is re-entrant code?

9.10 What is the main idea behind hierarchical paging?

9.11 How are collisions handled in hashed page tables?

9.12 What are the drawbacks of inverted page tables?