Due September 12th, 2012

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Read Chapter 1 and 2 as covered in class (no need to go beyond)
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Q1: Describe in your own words what an Operating System is and what its functions are?
Q2: What are the basic elements of a computer system that are managed by an OS?
Q3: What is the fundamental advantage of interrupts?
Q4: What is the advantage of DMAs over Programmed I/O?
Q5: Why were caches introduced in computer architectures and what access pattern of an application does it take advantage off?
Q6: What does an operating system need to do to manage cache memory?
Q7: Different systems provide different characteristics. Throughput vs. ResponseTime... which mode would you use in either scenario and why?

Solve the following problems in the book: 1.9, 1.13

(1 point each for Q1-Q6) (2 points for 1.9 and 1.13) (Q7 was removed)

Due at the next class as a hard copy to be handed in.

- Handwritten or typed is fine
- Be precise with your answers (we are not interested in reading lengthy explanations)