Name:	
CS370: Introduction to Digital Design	Instructor: B. Hemingway
Quiz #4 – Take home version Due in class, Dec. 1	November 23, 2004
1. You are to develop a state diagram for a washing machine. The medeposited. It then sequences through the following stages: soak, wash, ring wash" switch, which, if turned on, causes a second wash and rinse to occumal assume that each stage should take the same amount of time. The time is deposited, generates a T signal at the end of the time period, and then reprised during the spin cycle, the machine stops spinning until the lid is timer suspends ticking while the lid is raised.	use, and spin. There is a "double ur. There is one external timer—you her begins ticking as soon as the coin esets itself and starts again. If the lid
a. (5 points) Identify your inputs and outputs	
h (5 mainte). Duovy a state diagram that implements this finite state mach	:
b. (5 points) Draw a state diagram that implements this finite state mach	ine.

c. (5 points) Construct the state table for this finite state machine.

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d. (15 points) Write your state machine in verilog (you may hand in a print out):