Score:			Name:				
The pro	gram belo	w is executed on th	955 Quiz V, W	ednesday, Oc PS described in chapte	etober 2 er 6. Answer the follo	owing questions	
loop:	lw lw slt beq	\$4,100(\$0) \$3,300(\$4) \$7,200(\$0) \$8,\$7,\$3 \$8,\$4,then					
then:	and addi or sw beq	\$6,\$7,\$8 \$5,\$5,6 \$8,\$5,\$8 \$5,100(\$6) \$5,\$0,loop					
Assume the control unit does not have any hazard detection, forwarding, a new branch compare circuit, or automatic branch flushing, and that the register file will not write and then read a new register value in one clock cycle. Rewrite the code sequence by adding the minimum number of NOP instructions (do not reorder or change instructions) to eliminate all potential data and branch hazards. Assume other non-NOP instructions follow the last branch in the original code sequence above.							
Total n	umber of	NOPs required	18	4	- tpts.		
Sport Shows of the		addi nop nop op nop nop			- tptsleach		rt or 10
assignm single c code in	nent, addin lock cycle loop and	g a branch compare. Determine the nu	by adding the hazard at e unit to the decode sta mber of clock cycles at top of loop and is just	age, and the register for required to complete	ile writes then reads a	a new value in a on (i.e. executes	or (0 io.f;11)
flushing		ssor starts this prog 0 - nal program would	ram initially at power u	up. if there were no has		me to initially	3 pts.
	program v	vill need to stall and	d/or flushs the pipeline required for execution	an additional 3	clock cycles so	line).	
						-leac cycle	h clock