1. For each pseudoinstruction below, produce a *minimal* sequence of actual MIPS instr. to do the same thing.

	Pseudoinstruction	What it accomplishes
(a)	bge \$t5, \$t3, L	$if(\$t5 \ge \$t3) goto L$
(b)	bgt \$t5, \$t3, L	if(\$t5 > \$t3) goto L

- What type of format is used for each of instr. below?
 (a) sll (b) sw (c) slt (d) beq (e) jal
- 3. For addresses below in the table and assume PC is at address 0x00000000 (i) 0x0005 0000 (ii) 0xFFFF FF00
 - (a) how many branch instr. do you need to get to each address?
 - (b) how many jump instr. are required to get to each address?

Ans.

1.	bge \$t5, \$t3, L	if (\$t5 ≧ \$t3) go to L	
			beq \$at, \$zero, L
	bgt \$t5, \$t3, L	if (\$t5 > \$t3) go to L	slt \$at, \$t3, \$t5
			bne \$at, \$zero, L

- 2. sll: R-type, sw:I-type, slt: R-type, beq:I-type, jal: J-type
- 3. (a) (i) 3 (ii) 1 (b) (i) 1 (ii) can't be done