ECE a) CMP. Company b) BSET A: C) ASL. Deslina A124 Shift 3	→ 0001 → 0001	Midte , DI ortents of 2 = 800; (AS)+ DE , 3: 0000 0010 0010	of - (A2) but is only only only only only only	ted 5th	- Variable of the second	and value) themstically
DS= Rotate Rotate) -> 000	0 1000	0100	0101	0 (x=1) (c=1) (x=0,	,
Register	-> 001	-1.		Register	x=0, c=p. N=	1, V=0,2=0
Do	\$1452	15 3		AO	\$8002	
DI	\$ 000 €			-A 1	\$800F	
D2	\$0003		, I	N 2	\$800 A	\$8008
D3	\$0005			N 3	\$8004	
D4	\$ A6 AA			A4	\$8010	
DS	48422	\$244		AS	\$800E	\$8611
D6	\$ A124			A6	\$8002	/
PZ	4 BFD2			A7	\$ 2000	

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	Memory	wrent	New	the second state of	C+ +	Regist	
	\$3000	\$1832	New		X N	Z	
	\$8002	\$8302		0.	1	0 0	0
	\$8004	\$2000		b	XXX	XX	×
-	\$8006	\$800A		C	00	0 1	0
	\$8008	\$0002		d	00	0 6	X
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2) a) MC68 K CISC architecture MIPS RISCON architecture It is a bi-ordian architecture (big & little) It is a big-ordian only architecture This has a 32 general purpose registers (32-bit) This has 8 general
purpos registers (32-bit) &
7 address registers with (24 bits) Instruction Jetch

Instruction Decode

Execution

Data Memory Access

Write back to require b) Stage Stage 2 Stage 3) Stage 4) Stage 5) With the five stages, the five processes can run in parallel after the instruction is decode stage begins. The instruction register will be populated with data: a) We can use the difference between the stock pointer and the frame pointer. The stack pointer (SP) points at the top of the stack, while the frame pointer(F) points at the top of the stack frame ic a constant for a particular function As space gets allocated for more variables, the SP moves to point to the remaining memory's beginning location. Hence, the current stack is a can be calculated by taking the difference of the SPS FP values.

3)	a) and \$t1, \$t0, \$v0 Format: and rd rs rt
	Opcode Rs Rt Rd Function vode 000000 01000 00010 01001 00000 100190
	The machine code is 0x 01024824
	b) or \$55, \$a0, \$t7 Format: or Rd, rs, rt Opicale Rs Rt Rd Function code 000000 00100 01111 1010 00000 10010/
	The machine code is 0x 508 FA 825
	c) srav \$00,\$1,\$18 Format: srav rd, rt, 15 Opcode RS Rt Rd Function code 000000 11000 00101 00100 00000 000111
	The machine code is 0x03052007

11100111

ORG \$ 1000 START: MOVE. B #\$00, DI Clear DI to 00. LABEL: LoopATAS (AI) LoopA AND). B #\$ A5, D Clears K, M, N P OR1, B #\$ A5, DI 11 Test to compare CMALB #\$AS, DI BES LABEL // If the set unt correct END START