Hex	OP	Instruction	ALU OP	Cin	Binv	WriteEn	RamEn	MemWrite	MemRead	MemToReg	RegDest	RT/IM	Branch	Jump
0	0000	nop	0	0	0	0	0	0	0	0	0	0	0	0
1	0001	sll	0	0	0	1	0	0	0	0	0	0	0	0
2	0010	and	0	1	0	1	0	0	0	0	0	0	0	0
3	0011	lw	1	1	0	1	1	0	1	1	1	1	0	0
4	0100	slt	1	0	0	1	0	0	0	0	0	0	0	0
5	0101	add	1	1	0	1	0	0	0	0	0	0	0	0
6	0110	addi	1	1	0	1	0	0	0	0	1	1	0	0
7	0111	sub	1	1	1	1	0	0	0	0	0	0	0	0
8	1000	sw	1	1	0	0	1	1	0	0	0	1	0	0
9	1001	jmp	0	0	0	0	0	0	0	0	0	0	0	1
A	1010	beq	0	0	0	0	0	0	0	0	0	0	1	0