Instructions	Opcode	Instructions	Opcode

MOV reg, reg
MOV reg, mem
MOV mem, reg
	100010dw oorrrmmm disp	RCL reg, 1
		RCL mem,1
			1101000w oo010mmm disp

MOV reg, imm	1011wrrr data	RCR reg, 1 RCR mem,1	1101000w oo011mmm disp
MOV mem, imm	1100011w oo000mmm disp data	ROL reg, 1 ROL mem,1	1101000w oo000mmm disp
MOVSX reg, reg MOVSX reg, mem	00001111 1011111w oorrrmmm disp	ROR reg, 1 ROR mem,1	1101000w oo001mmm disp
MOVZX reg, reg MOVZX reg, mem	00001111 1011011w oorrrmmm disp	RCL reg, CL RCL mem, CL	1101001w oo010mmm disp
MUL reg MUL mem	1111011w oo100mmm disp	RCR reg, CL RCR mem, CL	1101001w oo011mmm disp
NEG reg NEG mem	1111011w oo011mmm disp	ROL reg, CL ROL mem, CL	1101001w oo000mmm disp
NOT reg NOT mem	1111011w oo010mmm disp	ROR reg, CL ROR mem, CL	1101001w oo001mmm disp
OR reg, reg OR reg, mem OR mem, reg	000010dw oorrrmmm disp	RCL reg, imm RCL mem, imm	1100000w oo010mmm disp data
OR reg, imm OR mem, imm	1000000w oo001mmm disp	RCR reg, imm RCR mem, imm	1100000w oo011mmm disp data
POP reg	01011rrr	ROL reg, imm ROL mem, imm	1100000w oo000mmm disp data
POP mem	10001111 oo000mmm disp	ROR reg, imm ROR mem, imm	1100000w oo001mmm disp data
PUSH reg	01010rrr	Jcond Label (8bit disp)	0111cccc disp
PUSH mem	11111111 oo110mmm disp	Jcond Label (16bit disp)	00001111 1000cccc disp
PUSH imm	01101000 data	LOOP Label	11100010 disp
INC reg INC mem	1111111w oo000mmm disp	DEC reg DEC mem	1111111w oo001mmm disp

MOD = 11			Direct Effective Address			
R/M	**W=0**	**W=1**	**R/M**	**MOD = 00**	**MOD = 01**	**MOD = 10**
000	AL	AX	000	[BX]+[SI]	[BX]+[SI]+D_8	[BX]+[SI]+D_{16}
001	CL	CX	001	[BX]+[DI]	[BX]+[DI] +D_8	[BX]+[DI] +D_{16}
010	DL	DX	010	[BP]+[SI]	[BP]+[SI] +D_8	[BP]+[SI] +D_{16}
011	BL	BX	011	[BP]+[DI]	[BP]+[DI] +D_8	[BP]+[DI] +D_{16}
100	AH	SP	100	[SI]	[SI] +D_8	[SI] +D_{16}
101	CH	BP	101	[DI]	[DI] +D_8	[DI] +D_{16}
110	DH	SI	110	Direct Address	[BP] +D_8	[BP] +D_{16}
111	BH	DI	111	[BX]	[BX] +D_8	[BX] +D_{16}

Condition Codes	Mnemonic	Flag	Description
0000	JO	O = 1	Jump if overflow
0001	JNO	O = 0	Jump if no overflow
0010	JB/NAE	C = 1	Jump if below
0011	JAE/JNB	C = 0	Jump if above or equal
0100	JE/JZ	Z = 1	Jump if equal/zero
0101	JNE/JNZ	Z = 0	Jump if not equal/zero
0110	JBE/JNA	C = 1 + Z = 1	Jump if below or equal
0111	JA/JNBE	C = 0 • Z = 0	Jump if above
1000	JS	S = 1	Jump if sign
1001	JNS	S = 0	Jump if no sign
1010	JP/JPE	P = 1	Jump if parity
1011	JNP/JPO	P = 0	Jump if no parity
1100	JL/JNGE	S • O	Jump if less than
1101	JGE/JNL	S = 0	Jump if greater than or equal
1110	JLE/JNG	Z = 1 + S • O	Jump if less than or equal
1111	JG/JNLE	Z = 0 + S = O	Jump if greater than

Best of Luck