MOV Rd, Rs Re		Size	Type of Instruction	Affected Flags	Example
	Register	1 byte	Data Transfer (Move)	None	MOV A, B
MOV Rd, M / MOV M, Rs Ro	Register Indirect (HL)	1 byte	Data Transfer (Move)	None	MOV A, M
MVI R/M, data8 In	mmediate	2 bytes	Data Transfer (Load Immediate)	None	MVI C, 56H / MVI M, 3EH
LDA addr16 D	Direct	3 bytes	Data Transfer (Load)	None	LDA 2050H
STA addr16 D	Direct	3 bytes	Data Transfer (Store)	None	STA 2050H
LDAX B / LDAX D Re	Register Indirect (BC/DE)	1 byte	Data Transfer (Load Indirect)	None	LDAX B
STAX B / STAX D Ro	Register Indirect (BC/DE)	1 byte	Data Transfer (Store Indirect)	None	STAX D
LHLD addr16 D	Direct	3 bytes	Data Transfer (Load Register Pair)	None	LHLD 2050H
SHLD addr16 D	Direct	3 bytes	Data Transfer (Store Register Pair)	None	SHLD 2050H
LXI Rp, data16 In	mmediate (16-bit)	3 bytes	Data Transfer (Load Register Pair Immediate)	None	LXI H, 3540H
XCHG In	mplicit	1 byte	Data Transfer (Exchange)	None	XCHG
XTHL In	mplicit / Stack	1 byte	Data Transfer (Exchange with Stack)	None	XTHL
SPHL In	mplicit	1 byte	Stack/Control	None	SPHL
PUSH Rp / PUSH PSW In	mplicit / Stack	1 byte	Stack	None	PUSH B / PUSH PSW
POP Rp / POP PSW In	mplicit / Stack	1 byte	Stack	None (but POP PSW restores flags)	POP D / POP PSW
	mplicit	1 byte	Branching / Control	None	PCHL
ADD R / ADD M Re	Register / Register Indirect	1 byte	Arithmetic (Add)	All flags (S,Z,AC,P,CY)	ADD C
·	mmediate	2 bytes	Arithmetic (Add Immediate)	All flags	ADI 56H
ADC R / ADC M Re	Register / Register Indirect	1 byte	Arithmetic (Add with Carry)	All flags	ADC M
	mmediate	2 bytes	Arithmetic (Add Immediate with Carry)	All flags	ACI 56H
	Register Pair	1 byte	Arithmetic (16-bit Add)	Carry (CY) only	DAD B
	Register / Register Indirect	1 byte	Arithmetic (Subtract)	All flags	SUB C
	mmediate	2 bytes	Arithmetic (Subtract Immediate)	All flags	SUI 56H
SBB R / SBB M Re	Register / Register Indirect	1 byte	Arithmetic (Subtract with Borrow)	All flags	SBB M
	mmediate	2 bytes	Arithmetic (Subtract Immediate with Borrow)	All flags	SBI 56H
INR R / INR M Re	Register / Register Indirect	1 byte	Arithmetic (Increment)	All except Carry (CY)	INR B / INR M
DCR R / DCR M Re	Register / Register Indirect	1 byte	Arithmetic (Decrement)	All except Carry (CY)	DCR M
INX Rp Ro	Register Pair	1 byte	Arithmetic (Increment Pair)	None	INX B
DCX Rp Ro	Register Pair	1 byte	Arithmetic (Decrement Pair)	None	DCX B
DAA In	mplicit	1 byte	Arithmetic (BCD Adjust)	All flags	DAA
ANA R / ANA M Re	Register / Register Indirect	1 byte	Logical (AND)	All flags	ANA B
	mmediate	2 bytes	Logical (AND Immediate)	All flags	ANI 32H
ORA R / ORA M Re	Register / Register Indirect	1 byte	Logical (OR)	All flags	ORA B
ORI data8 In	mmediate	2 bytes	Logical (OR Immediate)	All flags	ORI 32H
XRA R / XRA M Re	Register / Register Indirect	1 byte	Logical (XOR)	All flags	XRA B
	mmediate	2 bytes	Logical (XOR Immediate)	All flags	XRI 32H
	mplicit	1 byte	Logical (Complement)	None	CMA
	mplicit	1 byte	Logical (Complement Carry)	Carry (CY)	CMC
	mplicit	1 byte	Logical (Set Carry)	Carry (CY)	STC
	Register / Register Indirect	1 byte	Logical (Compare)	All flags (result not stored)	CMP C
	mmediate	2 bytes	Logical (Compare Immediate)	All flags	CPI 32H
	mplicit	1 byte	Rotate / Logical	Carry (CY)	RLC
	mplicit	1 byte	Rotate / Logical	Carry (CY)	RRC
	mplicit	1 byte	Rotate / Logical	Carry (CY)	RAL

RAR	Implicit	1 byte	Rotate / Logical	Carry (CY)	RAR
IN port8	I/O Immediate	2 bytes	I/O	None	IN 32H
OUT port8	I/O Immediate	2 bytes	I/O	None	OUT 56H
NOP	Implicit	1 byte	Machine Control	None	NOP
HLT	Implicit	1 byte	Machine Control	None	HLT
JMP addr16	Direct	3 bytes	Branching (Jump)	None	JMP 2050H
JZ addr16	Direct	3 bytes	Branching (Conditional Jump)	None (uses flags)	JZ 2050H
JNZ addr16	Direct	3 bytes	Branching (Conditional Jump)	None (uses flags)	JNZ 2050H
JC addr16	Direct	3 bytes	Branching (Conditional Jump)	None (uses flags)	JC 2050H
JNC addr16	Direct	3 bytes	Branching (Conditional Jump)	None (uses flags)	JNC 2050H
JP addr16	Direct	3 bytes	Branching (Conditional Jump)	None (uses flags)	JP 2050H
JM addr16	Direct	3 bytes	Branching (Conditional Jump)	None (uses flags)	JM 2050H
JPO addr16	Direct	3 bytes	Branching (Conditional Jump)	None	JPO 2050H
JPE addr16	Direct	3 bytes	Branching (Conditional Jump)	None	JPE 2050H
CALL addr16	Direct	3 bytes	Branching (Call)	None	CALL SUB
CZ addr16	Direct	3 bytes	Branching (Conditional Call)	None (uses flags)	CZ 2050H
CNZ addr16	Direct	3 bytes	Branching (Conditional Call)	None	CNZ 2050H
RET	Implicit / Stack	1 byte	Branching (Return)	None	RET
RZ	Implicit / Stack	1 byte	Branching (Conditional Return)	None (uses flags)	RZ
RNZ	Implicit / Stack	1 byte	Branching (Conditional Return)	None	RNZ
RST n (0-7)	Implicit	1 byte	Interrupt/Call	None	RST 5 (jump to 28H)
RIM	Implicit	1 byte	Interrupt Control	None	RIM
SIM	Implicit	1 byte	Interrupt Control	None	SIM
El	Implicit	1 byte	Machine Control / Interrupt	None	EI
DI	Implicit	1 byte	Machine Control / Interrupt	None	DI