8085 Instruction Summary

Hex	Mnem	onic	Hex 11	Mnemonic		Hex	Mnemonic		Hex	Mnemonic	
00	NOP			LXI	D	21	LXI	Н	31	LXI	SP
01	LXI B		12	STAX	D	22	SHLD		32	STA	200
02	STAX	В	13	INX	D	23	INX	H	33	INX	SP
03	INX	В	14	INR	D	24	INR	H	34	INR	М
04	INR	В	15	DCR	D	25	DCR	Н	35	DCR	M
05	DCR	В	16	MVI	D	26	MVI	Н	36	MVI	M
06	MVI	В	17	RAL		27	DAA		37	STC	.000.
07	RLC		19	DAD	D	29	DAD	H	39	DAD	SP
09	DAD	В	1A	LDAX	D	2A	LHLD		3A	LDA	
0A	LDAX	В	1B	DCX	D	2B	DCX	Н	3B	DCX	SP
0B	DCX	В	1C	INR	E	2C	INR	L	3C	INR	A
0C	INR	C	1D	DCR	E	2D	DCR	L	3D		Α
0D	DCR	C	1E	MVI	E	2E	MVI	L	3E	MVI	
0E	MVI	C	1F	RAR		2F	CMA		3F	CMC	
OF	RRC		20	RIM		30	SIM		40	MOV	BB

Hex Mnemonic Mnemonic		Hex	Mnemonic	Hex	Mnemonic	Hex		
41	MOV B,C	70	MOV M,B	9F	SBB A	CF	RST	1
42	MOV B,D	71	MOV M,C	A0	ANA B	D0	RNC	
43	MOV B,E	72	MOV M,D	A1	ANA C	D1	POP	D
44	MOV B,H	73	MOV M,E	A2	ANA D	D2	JNC	
45	MOV B,L	74	MOV M,H	A3	ANA E	D3	OUT	
46	MOV B,M	75	MOV M,L	A4	ANA H	D4	CNC	
47	MOV B,A	76	HLT	A5	ANA L	D5	PUSH	D
48	MOV C,B	77	MOV M,A	A6	ANA M	D6	SUI	
49	MOV C,C	78	MOV A,B	A7	ANA A	D7	RST	2
4A	MOV C,D	79	MOV A,C	A8	XRA B	D8	RC	
4B	MOV C,E	7A	MOV A,D	A9	XRA C	DA	JC	
4C	MOV C,H	7B	MOV A,E	AA	XRA D	DB	IN	
4D	MOV C,L	7C	MOV A,H	AB	XRA E	DC	CC	
4E	MOV C,M	7D	MOV A,L	AC	XRA H	DE	SBI	
4F	MOV C,A	7E	MOV A,M	AD	XRA L	DF	RST	3
50	MOV D,B	7F	MOV A,A	AE	XRA M	E0	RPO	
51	MOV D,C	80	ADD B	AF	XRA A	EI	POP	H
52	MOV D,D	81	ADD C	В0	ORA B	E2	JPO	
53	MOV D,E	82	ADD D	B1	ORA C	E3	XTHL	
54	MOV D,H	83	ADD E	B2	ORA D	E4	CPO	
55	MOV D,L	84	ADD H	В3	ORA E	E5	PUSH	H
56	MOV D,M	85	ADD L	B4	ORA H	E6	ANI	
57	MOV D,A	86	ADD M	B5	ORA L	E7	RST	4
58	MOV E,B	87	ADD A	В6	ORA M	E8	RPE	
59	MOV E,C	88	ADC B	В7	ORA A	E9	PCHL	
5A	MOV E,D	89	ADC C	B8	CMP B	EA	JPE	
5B	MOV E,E	8A	ADC D	В9	CMP C	EB	XCHG	
5C	MOV E,H	8B	ADC E	BA	CMP D	EC	CPE	
5D	MOV E,L	8C	ADC H	BB	CMP E	EE	XRI	
5E	MOV EM	8D	ADC L	BC	CMP H	EF	RST	5
5F	MOV EA	8E	ADC M	BD	CMP L	F0	RP	
60	MOV H,B	8F	ADC A	BE	CMP M	F1	POP	PS
61	MOV H,C	90	SUB B	BF	CMP A	F2	JP	
62	MOV H,D	91	SUB C	C0	RNZ	F3	DI	
63	MOV H,E	92	SUB D	C1	POP B	F4	CP	
64	MOV H,H	93	SUB E	C2	JNZ	F5	PUSH	PS
65	MOV H,L	94	SUB H	C3	JMP	F6	ORI	
66	MOV H,M	95	SUB L	C4	CNZ	F7	RST	6
67	MOV H,A	96	SUB M	C5	PUSH B	F8	RM	
68	MOV L,B	97	SUB A	C6	ADI	F9	SPHL	
69	MOV L,C	98	SBB B	C7	RST 0	FA	JM	
6A	MOV L,D	99	SBB C	C8	RZ	FB	EI	
6B	MOV L,E	9A	SBB D	C9	RET	FC	CM	
6C	MOV L,H	9B	SBB E	CA	JZ	FE	CPI	
6D	MOV L,L	9C	SBB H	CC	CZ	FF	RST	7
6E	MOV L,M	9D	SBB L	CD	CALL			
6F	MOV L,A	9E	SBB M	CE	ACI	1		

DATA TRANSFER GROUP

ARITHMETIC AND LOGICAL GROUP

	Mc	eve	0	Move ((cont)		Move Immed	late		A	dd*		ncre	ment**		Log	icai*
MOV-	A,A A,B A,C A,D A,E A,H	7F 78 79 7A 7B 7C	MOV-	E,A E,B E,C E,D E,E	5F 58 59 5A 5B 5C	MVI-	A, byte B, byte C, byte D, byte E, byte H, byte	3E 06 0E 16 1E 26	ADD-	ABCDEH	87 80 81 82 83 84	INR -	ABCDEH	3C 04 0C 14 1C 24	ANA-	ABCDEH	A7 A0 A1 A2 A3 A4
	A,L A,M	7D 7E		E,L E,M	5D 5E	- [L, byte M, byte	2E 36		L	85 86		L M	2C 34		L	A5 A6
iov-	B,A B,B B,C B,D B,E B,H B,L	47 40 41 42 43 44 45	моч-	H,A H,B H,C H,D H,E H,H	67 60 61 62 63 64 65	LXI-	Load Immedi B, dble D, dble	01 11	ADC-	ABCDEH.	8F 88 89 8A 8B	INX -	B D H SP	03 13 23 33	XRA-	ABCDEH	AF AB AA AB AC
	B,M C,A	46 4F		L.A	66 6F	l	H, dble SP, dble	21 31		M	8D 8E		A	3D		L M	AD AE
10V-	C,B C,C	C,B 48 C,C 49	MOV-	L,B L,C L,D	68 69 6A		Load/Store LDAX B 0A			Subt		B 05 C 0D DCR- D 15			B C	B7 B0 B1	
OV-	C,D C,E C,H C,L	4A 4B 4C 4D	MOV-	L,E L,H L,L	6B 6C 6D		LDAX D LHLD adr LDA adr	3A	SUB-	A B C D	97 90 91 92		H	1D 25 2D	ORA-	DEHL	B2 B3 B4 B5
Ì	D,A D,B	4E 57 50		M,A M,B	6E 77 70		STAX B STAX D SHLD adr STA adr			H	93 94 95	DCX-	B D	35 0B 1B		A A	B6 BF
ov-	D,C D,D D,E	51 52 53	MOV-	M,C M,D M,E	71 72 73		STA HOT	32	Ì	A B	96 9F 98	l	SP	28 38	СМР-	B C D E	88 89 8A 8B
	D,H D,L D,M	54 55 56	хсна	M.H M.L	74 75 EB				S8B -	C D E	99 9A 9B	DA	Spec	cials 27		H	BC BD BE
	byte =		. or logical/	arithm	atic expre		valuates to a			H L M	9C 9D 9E	CN ST CN	7.77	2F 37 3F		_ M Ih & L nedia	.ogical
	dble -	constant	or logical	arithm	etic expre	ession that	evaluates to tes of 3-byt	8	D	ouble	Add †		Rota		ADI ACI	byte byte	C6 CE
						es of 3-byte	instructions	1.		T-6		34.5				byte	D6
						exception	INX and DC	х	DAD-	BDH	09 19 29	RL RR RA	C	07 0F 17	ANI	byte byte byte	DE E6 EE
	† =	only CAI	RRY affecte	d.						SP	39	RA		1F		byte byte	F6 FE
		All mn	emonics co	pyright	eIntel Co	noitarogro	1976.										7797