## Intel 8080 Opcodes

				usu Opcodes	
				For x=0	Opcode format:
z=0			NOP	No operation	xx yy y zzz
z=1	q=0		LXI, rp[p]	Load register pair immedate	pp q
	q=1		DAD rp[p]	Add register pair to HL	
z=2	q=0	p=01	STAX rp[p]	Store accumulator in location pointed by reg	x First octal digit
		p=2	SHLD a	Store HL at location	y Second octal digit
		p=3	STA a	Store accumulator at location	Z Third octal digit
	q=1	p=01	LDAX rp[p]	Load accumulator with value from mem	p y rightshifted 1
		p=2	LHLD a	Load HL from location	<b>q</b> y modulo 2
		p=3	LDA a	Load accumulator with value from mem	Table of
z=3	q=0		INX rp[p]	Increment register pair	Table r[]
z=4	q=1		DCX rp[p]	Decrement register pair	0 B
z=5			INR r[y] DCR r[y]	Increment register  Decrement register	1 C D
z=6			MVI r[y], #	Move immedate to register	3 E
z=7		y=0	RLC	Rotate accumulator left with carry	_ 4 H
		y=1	RRC	Rotate accumulator right with carry	5 L
		y=2	RAL	Rotate accumulator left	6 (HL)
		y=3	RAR	Rotate accumulator right	7 A
		y=4	DAA	Decimal adjust accumulator	
		y=5	СМА	Complement accumulator	Table rp[]
		y=6	STC	Set carry bit	0 BC
		y=7	СМС	Complement carry bit	1 DE
				For x=1	2 HL
			MOV r[y], r[z]	Move one register value to another	3 SP
z=6		y=6	HALT	Halt cpu	
				For x=2	Table rp2[]
		y=0	ADD r[z]	Add register to accumulator	0 BC
		y=1	ADC r[z]	Add register to accumulator with carry	1 DE
		y=2	SUB r[z]	Subtract register from carry	2 HL
		y=3	SBC r[z]	Subtract register from carry with borrow	3 AF
		y=4	ANA r[z]	Logical AND betweem accumulator and register	
		y=5	XRA r[z]	Logical XOR betweem accumulator and register	Table cc[]
		y=6	ORA r[z]	Logical OR between accumulator and register	0 NZ
		y=7	CMP r[z]	Compare accumulator and register	1 Z
				For x=3	2 NC
z=0			R cc[y]	Conditional RET	3 C
z=1	q=0		POP rp2[p]	Pop value from stack to register pair	4 PO
	q=1	p=01	RET	Return from subroutine	5 PE
		p=2	PCHL	Store program counter in HL	6 P 7 M
z=2		p=3	SPHL J cc[y]	Store stack pointer in HL  Conditional JMP	7 M
z=3		p=0	JMP a	Jump to address	
	q=0	p=1	OUT#	bump to address	
		p=2	XTHL		
		p=3	DI	Disable interrupts	
	q=1	p=1	IN#		
		p=2	XCHG		
		p=3	EI	Enable interrupts	
z=4			C cc[y]	Conditional CALL	
z=5	q=0		PUSH rp2[p]	Push register pair value onto stack	
	q=1	•	CALL	Call subroutine	
z=6		y=0	ADI#	Add immedate to accumulator	
		y=1	ACI SUI	Add immedate to accumulator with carry	
		y=2 y=3	SBI	Subtract immedate from accumulator Subtract immedate from accumulator with borrow	
		y=4	ANI	Logical AND between accumulator and immedate	
		y=5	XRI	Logical XOR between accumulator and immedate	
		y=6	ORI	Logical OR between accumulator and immedate	
		y=7	СРІ	Compare immedate with accumulator	