Z80 Opcode table

	0	1	2	3	4	5	6	7	8	9	A	В	С	D	E	F
0	nop	ld bc,xx	ld (bc),a	inc bc	inc b	dec b	ld b,x	rlca	ex af,af'	add hl,bc	ld a,(bc)	dec bc	inc c	dec c	ld c,x	rrca
1	djnz x	ld de,xx	ld (de),a	inc de	inc d	dec d	ld d,x	rla	jr x	add hl,de	ld a,(de)	dec de	inc e	dec e	ld e,x	rra
2	jr nz,x	ld hl,xx	ld (xx),hl	inc hl	inc h	dec h	ld h,x	daa	jr z,x	add hl,hl	ld hl,(xx)	dec hl	inc l	dec l	ld I,x	cpl
3	jr nc,x	ld sp,xx	ld (xx),a	inc sp	inc (hl)	dec (hl)	ld (hl),x	scf	jr c,x	add hl,sp	ld a,(xx)	dec sp	inc a	dec a	ld a,x	ccf
4	ld b,b	ld b,c	ld b,d	ld b,e	ld b,h	ld b,l	ld b,(hl)	ld b,a	ld c,b	ld c,c	ld c,d	ld c,e	ld c,h	ld c,l	ld c,(hl)	ld c,a
5	ld d,b	ld d,c	ld d,d	ld d,e	ld d,h	ld d,l	ld d,(hl)	ld d,a	ld e,b	ld e,c	ld e,d	ld e,e	ld e,h	ld e,l	ld e,(hl)	ld e,a
6	ld h,b	ld h,c	ld h,d	ld h,e	ld h,h	ld h,l	ld h,(hl)	ld h,a	ld l,b	ld l,c	ld I,d	ld l,e	ld l,h	ld I,I	ld l,(hl)	ld I,a
7	ld (hl),b	ld (hl),c	ld (hl),d	ld (hl),e	ld (hl),h	ld (hl),l	halt	ld (hl),a	ld a,b	ld a,c	ld a,d	ld a,e	ld a,h	ld a,l	ld a,(hl)	ld a,a
8	add a,b	add a,c	add a,d	add a,e	add a,h	add a,l	add a,(hl)	add a,a	adc a,b	adc a,c	adc a,d	adc a,e	adc a,h	adc a,l	adc a,(hl)	adc a,a
9	sub b	sub c	sub d	sub e	sub h	sub l	sub (hl)	sub a	sbc a,b	sbc a,c	sbc a,d	sbc a,e	sbc a,h	sbc a,l	sbc a,(hl)	sbc a,a
Α	and b	and c	and d	and e	and h	and I	and (hl)	and a	xor b	xorc	xor d	xor e	xor h	xor l	xor (hl)	xor a
В	or b	or c	or d	or e	or h	or l	or (hl)	or a	cp b	ср с	cp d	ср е	cp h	cp I	cp (hl)	ср а
С	ret nz	pop bc	jp nz,xx	јр хх	call nz,xx	push bc	add a,x	rst 00h	ret z	ret	jp z,xx	СВ	call z,xx	call xx	adc a,x	rst 08h
D	ret nc	pop de	jp nc,xx	out (x),a	call nc,xx	push de	sub x	rst 10h	ret c	exx	јр с,хх	in a,(x)	call c,xx	DD (IX)	sbc a,x	rst 18h
E	ret po	pop hl	јр ро,хх	ex (sp),hl	call po,xx	push hl	and x	rst 20h	ret pe	jp (hl)	jp pe,xx	ex de,hl	call pe,xx	ED	xorx	rst 28h
F	ret p	pop af	јр р,хх	di	call p,xx	push af	or x	rst 30h	ret m	ld sp,hl	jp m,xx	ei	call m,xx	FD (IY)	ср х	rst 38h

Z80 Opcode table with a prefix byte ED

ED	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	E	F
0																
1																
2																
3																
4	in b,(c)	out (c),b	sbc hl,bc	ld (nn),bc	neg	retn	im 0	ld i,a	in c,(c)	out (c),c	adc hl,bc	ld bc,(nn)	neg	reti	im 0	ld r,a
5	in d,(c)	out (c),d	sbc hl,de	ld (nn),de	neg	retn	im 1	ld a,i	in e,(c)	out (c),e	adc hl,de	ld de,(nn)	neg	retn	im 2	ld a,r
6	in h,(c)	out (c),h	sbc hl,hl	ld (nn),hl	neg	retn	im 0	rrd	in I,(c)	out (c),I	adc hl,hl	Id hl,(nn)	neg	retn	im 0	rld
7	in (c)	out (c),0	sbc hl,sp	ld (nn),sp	neg	retn	im 1		in a,(c)	out (c),a	adc hl,sp	ld sp,(nn)	neg	retn	im 2	
8																
9																
Α	ldi	срі	ini	outi					ldd	cpd	ind	outd				
В	ldir	cpir	inir	otir					lddr	cpdr	indr	outdr				
С																
D																
Е																
F																

Z80 Opcode table with a prefix byte CB

СВ	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	E	F
0	rlc b	rlc c	rlc d	rlc e	rlc h	rlc I	rlc (hl)	rlc a	rrc b	rrc c	rrc d	rrc e	rrc h	rrc l	rrc (hl)	rrc a
1	rl b	rl c	rl d	rl e	rl h	rl I	rl (hl)	rl a	rr b	rr c	rr d	rr e	rr h	rr l	rr (hl)	rr a
2	sla b	sla c	sla d	sla e	sla h	sla l	sla (hl)	sla a	sra b	sra c	sra d	sra e	sra h	sra l	sra (hl)	sra a
3	sll b	sll c	sll d	sll e	sll h	sll l	sll (hl)	sll a	srl b	srl c	srl d	srl e	srl h	srl l	srl (hl)	srl a
4	bit 0,b	bit 0,c	bit 0,d	bit 0,e	bit 0,h	bit 0,l	bit 0,(hl)	bit 0,a	bit 1,b	bit 1,c	bit 1,d	bit 1,e	bit 1,h	bit 1,l	bit 1,(hl)	bit 1,a
5	bit 2,b	bit 2,c	bit 2,d	bit 2,e	bit 2,h	bit 2,I	bit 2,(hl)	bit 2,a	bit 3,b	bit 3,c	bit 3,d	bit 3,e	bit 3,h	bit 3,l	bit 3,(hl)	bit 3,a
6	bit 4,b	bit 4,c	bit 4,d	bit 4,e	bit 4,h	bit 4,l	bit 4,(hl)	bit 4,a	bit 5,b	bit 5,c	bit 5,d	bit 5,e	bit 5,h	bit 5,l	bit 5,(hl)	bit 5,a
7	bit 6,b	bit 6,c	bit 6,d	bit 6,e	bit 6,h	bit 6,l	bit 6,(hl)	bit 6,a	bit 7,b	bit 7,c	bit 7,d	bit 7,e	bit 7,h	bit 7,l	bit 7,(hl)	bit 7,a
8	res 0,b	res 0,c	res 0,d	res 0,e	res 0,h	res 0,I	res 0,(hl)	res 0,a	res 1,b	res 1,c	res 1,d	res 1,e	res 1,h	res 1,l	res 1,(hl)	res 1,a
9	res 2,b	res 2,c	res 2,d	res 2,e	res 2,h	res 2,I	res 2,(hl)	res 2,a	res 3,b	res 3,c	res 3,d	res 3,e	res 3,h	res 3,l	res 3,(hl)	res 3,a
A	res 4,b	res 4,c	res 4,d	res 4,e	res 4,h	res 4,I	res 4,(hl)	res 4,a	res 5,b	res 5,c	res 5,d	res 5,e	res 5,h	res 5,l	res 5,(hl)	res 5,a
В	res 6,b	res 6,c	res 6,d	res 6,e	res 6,h	res 6,I	res 6,(hl)	res 6,a	res 7,b	res 7,c	res 7,d	res 7,e	res 7,h	res 7,I	res 7,(hl)	res 7,a
С	set 0,b	set 0,c	set 0,d	set 0,e	set 0,h	set 0,I	set 0,(hl)	set 0,a	set 1,b	set 1,c	set 1,d	set 1,e	set 1,h	set 1,l	set 1,(hl)	set 1,a
D	set 2,b	set 2,c	set 2,d	set 2,e	set 2,h	set 2,I	set 2,(hl)	set 2,a	set 3,b	set 3,c	set 3,d	set 3,e	set 3,h	set 3,I	set 3,(hl)	set 3,a
Е	set 4,b	set 4,c	set 4,d	set 4,e	set 4,h	set 4,I	set 4,(hl)	set 4,a	set 5,b	set 5,c	set 5,d	set 5,e	set 5,h	set 5,I	set 5,(hl)	set 5,a
F	set 6,b	set 6,c	set 6,d	set 6,e	set 6,h	set 6,I	set 6,(hl)	set 6,a	set 7,b	set 7,c	set 7,d	set 7,e	set 7,h	set 7,I	set 7,(hl)	set 7,a

Z80 Opcode table with a prefix byte **DD (IX)**. The same table also applies to F**D (IY)**

DD	0	1	2	3	4	5	6	7	8	9	A	В	С	D	E	F
0										add ix,bc						
1										add ix,de						
2		ld ix,xx	ld (xx),ix	inc ix	inc ixh	dec ixh	ld ixh,x			add ix,ix	ld ix,(xx)	dec ix	inc ixl	dec ixl	ld ixl,x	
3					inc (ix+d)	dec (ix+d)	ld (ix+d),x			add ix,sp						
4					ld b,ixh	ld b,ixl	ld b,(ix+d)						ld c,ixh	ld c,ixl	ld c,(ix+d)	
5					ld d,ixh	ld d,ixl	ld d,(ix+d)						ld e,ixh	ld e,ixl	ld e,(ix+d)	
6	ld ixh,b	ld ixh,c	ld ixh,d	ld ixh,e	ld ixh,ixh	ld ixh,l	ld h,(ix+d)	ld ixh,a	ld ixl,b	ld ixl,c	ld ixl,d	ld ixl,e	ld ixl,ixh	ld ixl,l	ld l,(ix+d)	ld ixl,a
7	ld (ix+d),b	ld (ix+d),c	ld (ix+d),d	ld (ix+d),e	ld (ix+d),h	ld (ix+d),l		ld (ix+d),a					ld a,ixh	ld a,ixl	ld a,(ix+d)	
8					add a,ixh	add a,ixl	add a,(ix+d)						adc a,ixh	adc a,ixl	adc a,(ix+d)	
9					sub ixh	sub ixl	sub (ix+d)						sbc a,ixh	sbc a,ixl	sbc a,(ix+d)	
A					and ixh	and ixl	and (ix+d)						xor ixh	xor ixl	xor (ix+d)	
В					or ixh	or ixl	or (ix+d)						cp ixh	cp ixl	cp (ix+d)	
С																
D																
E		pop ix		ex (sp),ix		push ix				jp (ix)						
F										ld sp,ix						

Z80 Opcode table with a prefix byte **DD** (**IX**) + **CB**. The same table also applies to **FD** (**IY**) + **CB**.

							_ _		<u> </u>							
СВ	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	Е	F
0	rlc (ix+d),b	rlc (ix+d),c	rlc (ix+d),d	rlc (ix+d),e	rlc (ix+d),h	rlc (ix+d),l	rlc (ix+d)	rlc (ix+d),a	rrc (ix+d),b	rrc (ix+d),c	rrc (ix+d),d	rrc (ix+d),e	rrc (ix+d),h	rrc (ix+d),l	rrc (ix+d)	rrc (ix+d),a
1	rl (ix+d),b	rl (ix+d),c	rl (ix+d),d	rl (ix+d),e	rl (ix+d),h	rl (ix+d),l	rl (ix+d)	rl (ix+d),a	rr (ix+d),b	rr (ix+d),c	rr (ix+d),d	rr (ix+d),e	rr (ix+d),h	rr (ix+d),l	rr (ix+d)	rr (ix+d),a
2	sla (ix+d),b	sla (ix+d),c	sla (ix+d),d	sla (ix+d),e	sla (ix+d),h	sla (ix+d),l	sla (ix+d)	sla (ix+d),a	sra (ix+d),b	sra (ix+d),c	sra (ix+d),d	sra (ix+d),e	sra (ix+d),h	sra (ix+d),l	sra (ix+d)	sra (ix+d),a
3	sll (ix+d),b	sll (ix+d),c	sll (ix+d),d	sll (ix+d),e	sll (ix+d),h	sll (ix+d),l	sll (ix+d)	sll (ix+d),a	srl (ix+d),b	srl (ix+d),c	srl (ix+d),d	srl (ix+d),e	srl (ix+d),h	srl (ix+d),l	srl (ix+d)	srl (ix+d),a
4	bit 0, (ix+d)	bit 0, (ix+d)	bit 0, (ix+d)			bit 0, (ix+d)	bit 0,(ix+d)	bit 0, (ix+d)	bit 1, (ix+d)	bit 1, (ix+d)	bit 1, (ix+d)		bit 1, (ix+d)	bit 1, (ix+d)	bit 1, (ix+d)	bit 1, (ix+d)
5		bit 2, (ix+d)	bit 2, (ix+d)		1	bit 2, (ix+d)	bit 2,(ix+d)	bit 2, (ix+d)	bit 3, (ix+d)	bit 3, (ix+d)	bit 3, (ix+d)	1	bit 3, (ix+d)	bit 3, (ix+d)	bit 3, (ix+d)	bit 3, (ix+d)
6	bit 4, (ix+d)	bit 4,(ix+d)	bit 4, (ix+d)	bit 5, (ix+d)	bit 5, (ix+d)	bit 5, (ix+d)		bit 5, (ix+d)	bit 5, (ix+d)	bit 5, (ix+d)	bit 5, (ix+d)					
7		bit 6, (ix+d)	bit 6, (ix+d)	bit 6, (ix+d)		bit 6, (ix+d)	bit 6,(ix+d)	bit 6, (ix+d)	bit 7, (ix+d)	bit 7, (ix+d)	bit 7, (ix+d)	1	bit 7, (ix+d)	bit 7, (ix+d)	bit 7, (ix+d)	bit 7, (ix+d)
8	res 0,(ix+d),b	res 0,(ix+d),c	res 0,(ix+d),d	res 0,(ix+d),e	res 0,(ix+d),h	res 0,(ix+d),l	res 0,(ix+d)	res 0,(ix+d),a	res 1,(ix+d),b	res 1,(ix+d),c	res 1,(ix+d),d	res 1,(ix+d),e	res 1,(ix+d),h	res 1,(ix+d),l	res 1, (ix+d)	res 1,(ix+d),a
9	res 2,(ix+d),b	res 2,(ix+d),c	res 2,(ix+d),d	res 2,(ix+d),e	res 2,(ix+d),h	res 2,(ix+d),l	res 2,(ix+d)	res 2,(ix+d),a	res 3,(ix+d),b	res 3,(ix+d),c	res 3,(ix+d),d	res 3,(ix+d),e	res 3,(ix+d),h	roc	res 3, (ix+d)	roc
A	res 4,(ix+d),b	res 4,(ix+d),c	res 4,(ix+d),d	res 4,(ix+d),e	res 4,(ix+d),h	res 4,(ix+d),l	res 4,(ix+d)	res 4,(ix+d),a	res 5,(ix+d),b	res 5,(ix+d),c	res 5,(ix+d),d	res 5,(ix+d),e	res 5,(ix+d),h	res 5,(ix+d),l	res 5, (ix+d)	res 5,(ix+d),a
В	res 6,(ix+d),b	res 6,(ix+d),c	res 6,(ix+d),d	res 6,(ix+d),e	res 6,(ix+d),h	res 6,(ix+d),l	res 6,(ix+d)	res 6,(ix+d),a	res 7,(ix+d),b	res 7,(ix+d),c	res 7,(ix+d),d	res 7,(ix+d),e	res 7,(ix+d),h	res 7,(ix+d),l	res 7, (ix+d)	res 7,(ix+d),a
С	set 0,(ix+d),b	set 0,(ix+d),c	set 0,(ix+d),d	set 0,(ix+d),e	set 0,(ix+d),h	set 0,(ix+d),l	set 0,(ix+d)	set 0,(ix+d),a	set 1,(ix+d),b	set 1,(ix+d),c	set 1,(ix+d),d	set 1,(ix+d),e	set 1,(ix+d),h	set 1,(ix+d),l	set 1, (ix+d)	set 1,(ix+d),a
D	set 2,(ix+d),b	set 2,(ix+d),c	set 2,(ix+d),d	set 2,(ix+d),e	set 2,(ix+d),h	set 2,(ix+d),l	set 2,(ix+d)	set 2,(ix+d),a	set 3,(ix+d),b	set 3,(ix+d),c	set 3,(ix+d),d	set 3,(ix+d),e	set 3,(ix+d),h	set 3,(ix+d),l	set 3, (ix+d)	set 3,(ix+d),a
E	set 4,(ix+d),b	set 4,(ix+d),c	set 4,(ix+d),d	set 4,(ix+d),e	set 4,(ix+d),h	set 4,(ix+d),l	set 4,(ix+d)	set 4,(ix+d),a	set 5,(ix+d),b	set 5,(ix+d),c	set 5,(ix+d),d	set 5,(ix+d),e	set 5,(ix+d),h	set 5,(ix+d),l	set 5, (ix+d)	set 5,(ix+d),a
F	set 6,(ix+d),b	set 6,(ix+d),c	set 6,(ix+d),d	set 6,(ix+d),e	set 6,(ix+d),h	set 6,(ix+d),l	set 6,(hl)	set 6,(ix+d),a	set 7,(ix+d),b	set 7,(ix+d),c	set 7,(ix+d),d	set 7,(ix+d),e	set 7,(ix+d),h	set 7,(ix+d),l	set 7,(hl)	set 7,(ix+d),a