

# SOUTH AUSTRALIAN MICROPROCESSOR GROUP

P.O. BOX 113,  
PLYMPTON, S.A. 5038  
TEL. 278 7288

INC.

Meetings held at  
THEBARTON HIGH SCHOOL  
ASHLEY ST., THEBARTON

## NEWSLETTER

Vol. 1. No. 3.

August/September 1979 Newsletter. Postal Adr. P.O. BOX 113, PLYMPTON S.A.

---

Our thanks must go to Geoff Maloney and associates from Computerland for the display of Apple equipment and demonstrations of software at the June meeting. It certainly created a lot of interest particularly the colour graphics plotting and high level games playing.

The July meeting featured Rick Matthews who gave us a very interesting talk on the 6800 Microprocessor and its family. No doubt you all realise now how superior the 6800 is to other processors of the 8 bit class. Seriously, it was interesting to note the comments made by members on the subject of 16 bit machines. So if enough members request it we will try to organize a lecture giving us the facts and figures.

### August

The August meeting will be a B.Y.O.S. (Bring your own system) night. If you do not own a micro bring a friend who may be interested. Also any member who has ordered one of the V.D.U. kits from the group should bring along a blank cheque as the kits should be ready and available at the next meeting. At the time this newsletter went to the press a firm price was not given as some parts are still on the way.

### September

In September Tony Beresford will be giving us a talk on the structural requirements of high level languages, what's around and why. Languages covered will include Basic, Fortran, Pascal and the like. Tony has all of these languages on his machine and plus the fact that he is a professional programmer should make it quite an interesting evening.

If anyone wishes to contribute an article to our newsletter we would appreciate the offer. It need not be a literary masterpiece or a technical gem. It is rather difficult at times to come up with interesting articles so rummage around in your software or hardware scribblings and see what you can come up with.

Many thanks go to Electronics Today International for publishing the details of our group. We have had a number of inquiries as a result and we will welcome these people to our future meetings.

Our August meeting will be held on the 10th at 7.30pm  
Our September meeting will be held on the 14th at 7.30pm

YOUR COMMITTEE FOR 1979

CHAIRMAN: Eric Clarke  
 SECRETARY/TREASURER: Bob Stunell  
 ACTING SEC/TREASURER: John Moffatt

Work Phone 278 7288  
 Work Phone 352 5811

COMMITTEE MEMBERS:

Tony Beresford  
 Bob Daniells  
 Howie Harvey  
 Rick Matthews

FOR SALES100 boards surplus to my requirements

Imsai PIC-8 priority interrupt board, enables priority interrupts for 8080 cpu boards not providing them, also provision for speaker output and a real time clock.

Imsai 1702a EPROM board 4K capacity, addressable with jumpered sockets to any 4K boundary, 2 1702a's on the board.

DYNABYTE 16k bytes memory boards (2 available), dynamic memory chips, (MM5271). working without problems for a year at least. Replacing for technical reasons.

SZERLIP RAM/ROM board almost assembled for 8K 2708 EPROMS, 1K RAM. Not tested, available on as is basis.

Prices subject to discussion.

Tony Beresford Phone 79 2936 AH

*We are calling for a member who is willing and able to help construct the group V.D.U. Already the keyboard and 2650 Microprocessor unit have been assembled so once the V.D.U. has been built we can fire the system up and give those that do not have a system a bit of practice.*

*Starting from the August meeting Mr. Bob Hourigan will be arranging a 2650 machine language guide series, so all you 2650 owners or prospective owners come along and see Bob about the sessions.*

*On the following pages you will find a complete listing of 280 opcodes in numerical order. Ian Fisk supplied this listing together with the method of generation. Unfortunately due to the size of the listing we will publish the programs in the next newsletter. I only hope we never have to print the full opcode listings for a 16 bit machine.*

## Z80 OP CODES IN ALPHABETICAL ORDER

PROCESSED BY I. B. FISK

NOTE: NN VALUE IS ppqq(pp high byte - qq low byte)

N VALUE nn (HEX)

DIS AND IND VALUE IS yy(a signed 2's complement two digit hex number)

00	NOP		34	INC	(HL)
01qqpp	LD	BC,NN	35	DEC	(HL)
02	LD	(BC),A	36nn	LD	(HL),N
03	INC	BC	37	SCF	
04	INC	B	38yy	JR	C,DIS
05	DEC	B	39	ADD	HL,SP
06nn	LD	B,N	3Aqqpp	LD	A,(NN)
07	RLCA		3B	DEC	SP
08	EX	AF,AF'	3C	INC	A
09	ADD	HL,BC	3D	DEC	A
0A	LD	A,(BC)	3Enn	LD	A,N
0B	DEC	BC	3F	CCF	
0C	INC	C	40	LD	B,B
0D	DEC	C	41	LD	B,C
0Enn	LD	C,N	42	LD	B,D
0F	RRCA		43	LD	B,E
10yy	DJNZ	DIS	44	LD	B,H
11qqpp	LD	DE,NN	45	LD	B,L
12	LD	(DE),A	46	LD	B,(HL)
13	INC	DE	47	LD	B,A
14	INC	D	48	LD	C,B
15	DEC	D	49	LD	C,C
16nn	LD	D,N	4A	LD	C,D
17	RLA		4B	LD	C,E
18yy	JR	DIS	4C	LD	C,H
19	ADD	HL,DE	4D	LD	C,L
1A	LD	A,(DE)	4E	LD	C,(HL)
1B	DEC	DE	4F	LD	C,A
1C	INC	E	50	LD	D,B
1D	DEC	E	51	LD	D,C
1Enn	LD	E,N	52	LD	D,D
1F	RRA		53	LD	D,E
20yy	JR	NZ,DIS	54	LD	D,H
21qqpp	LD	HL,NN	55	LD	D,L
22qqpp	LD	(NN),HL	56	LD	D,(HL)
23	INC	HL	57	LD	D,A
24	INC	H	58	LD	E,B
25	DEC	H	59	LD	E,C
26nn	LD	H,N	5A	LD	E,D
27	DAA		5B	LD	E,E
28yy	JR	Z,DIS	5C	LD	E,H
29	ADD	HL,HL	5D	LD	E,L
2Aqqpp	LD	HL,(NN)	5E	LD	E,(HL)
2B	DEC	HL	5F	LD	E,A
2C	INC	L	60	LD	H,B
2D	DEC	L	61	LD	H,C
2Enn	LD	L,N	62	LD	H,D
2F	CPL		63	LD	H,E
30yy	JR	NC,DIS	64	LD	H,H
31qqpp	LD	SP,NN	65	LD	H,L
32qqpp	LD	(NN),A	66	LD	H,(HL)
33	INC	SP	67	LD	H,A

68	LD	L,B	A4	AND	H
69	LD	L,C	A5	AND	L
6A	LD	L,D	A6	AND	(HL)
6B	LD	L,E	A7	AND	A
6C	LD	L,H	A8	XOR	B
6D	LD	L,L	A9	XOR	C
6E	LD	L,(HL)	AA	XOR	D
6F	LD	L,A	AB	XOR	E
70	LD	(HL),B	AC	XOR	H
71	LD	(HL),C	AD	XOR	L
72	LD	(HL),D	AE	XOR	(HL)
73	LD	(HL),E	AF	XOR	A
74	LD	(HL),H	B0	OR	B
75	LD	(HL),L	B1	OR	C
76	HALT		B2	OR	D
77	LD	(HL),A	B3	OR	E
78	LD	A,B	B4	OR	H
79	LD	A,C	B5	OR	L
7A	LD	A,D	B6	OR	(HL)
7B	LD	A,E	B7	OR	A
7C	LD	A,H	B8	CP	B
7D	LD	A,L	B9	CP	C
7E	LD	A,(HL)	BA	CP	D
7F	LD	A,A	BB	CP	E
80	ADD	A,B	BC	CP	H
81	ADD	A,C	BD	CP	L
82	ADD	A,D	BE	CP	(HL)
83	ADD	A,E	BF	CP	A
84	ADD	A,H	C0	RET	NZ
85	ADD	A,L	C1	POP	BC
86	ADD	A,(HL)	C2qqpp	JP	NZ,NN
87	ADD	A,A	C3qqpp	JP	NN
88	ADC	A,B	C4qqpp	CALL	NZ,NN
89	ADC	A,C	C5	PUSH	BC
8A	ADC	A,D	C6nn	ADD	A,N
8B	ADC	A,E	C7	RST	0
8C	ADC	A,H	C8	RET	Z
8D	ADC	A,L	C9	RET	
8E	ADC	A,(HL)	CAqqpp	JP	Z,NN
8F	ADC	A,A	CB00	RLC	B
90	SUB	B	CB01	RLC	C
91	SUB	C	CB02	RLC	D
92	SUB	D	CB03	RLC	E
93	SUB	E	CB04	RLC	H
94	SUB	H	CB05	RLC	L
95	SUB	L	CB06	RLC	(HL)
96	SUB	(HL)	CB07	RLC	A
97	SUB	A	CB08	RRC	B
98	SBC	A,B	CB09	RRC	C
99	SBC	A,C	CB0A	RRC	D
9A	SBC	A,D	CB0B	RRC	E
9B	SBC	A,E	CB0C	RRC	H
9C	SBC	A,H	CB0D	RRC	L
9D	SBC	A,L	CB0E	RRC	(HL)
9E	SBC	A,(HL)	CB0F	RRC	A
9F	SBC	A,A	CB10	RL	B
A0	AND	B	CB11	RL	C
A1	AND	C	CB12	RL	D
A2	AND	D	CB13	RL	E
A3	AND	E	CB14	RL	H

CB15	RL	L	CB59	BIT	3,C
CB16	RL	(HL)	CB5A	BIT	3,D
CB17	RL	A	CB5B	BIT	3,E
CB18	RR	B	CB5C	BIT	3,H
CB19	RR	C	CB5D	BIT	3,L
CB1A	RR	D	CB5E	BIT	3,(HL)
CB1B	RR	E	CB5F	BIT	3,A
CB1C	RR	H	CB60	BIT	4,B
CB1D	RR	L	CB61	BIT	4,C
CB1E	RR	(HL)	CB62	BIT	4,D
CB1F	RR	A	CB63	BIT	4,E
CB20	SLA	B	CB64	BIT	4,H
CB21	SLA	C	CB65	BIT	4,L
CB22	SLA	D	CB66	BIT	4,(HL)
CB23	SLA	E	CB67	BIT	4,A
CB24	SLA	H	CB68	BIT	5,B
CB25	SLA	L	CB69	BIT	5,C
CB26	SLA	(HL)	CB6A	BIT	5,D
CB27	SLA	A	CB6B	BIT	5,E
CB28	SRA	B	CB6C	BIT	5,H
CB29	SRA	C	CB6D	BIT	5,L
CB2A	SRA	D	CB6E	BIT	5,(HL)
CB2B	SRA	E	CB6F	BIT	5,A
CB2C	SRA	H	CB70	BIT	6,B
CB2D	SRA	L	CB71	BIT	6,C
CB2E	SRA	(HL)	CB72	BIT	6,D
CB2F	SRA	A	CB73	BIT	6,E
CB38	SRL	B	CB74	BIT	6,H
CB39	SRL	C	CB75	BIT	6,L
CB3A	SRL	D	CB76	BIT	6,(HL)
CB3B	SRL	E	CB77	BIT	6,A
CB3C	SRL	H	CB78	BIT	7,B
CB3D	SRL	L	CB79	BIT	7,C
CB3E	SRL	(HL)	CB7A	BIT	7,D
CB3F	SRL	A	CB7B	BIT	7,E
CB40	BIT	0,B	CB7C	BIT	7,H
CB41	BIT	0,C	CB7D	BIT	7,L
CB42	BIT	0,D	CB7E	BIT	7,(HL)
CB43	BIT	0,E	CB7F	BIT	7,A
CB44	BIT	0,H	CB80	RES	0,B
CB45	BIT	0,L	CB81	RES	0,C
CB46	BIT	0,(HL)	CB82	RES	0,D
CB47	BIT	0,A	CB83	RES	0,E
CB48	BIT	1,B	CB84	RES	0,H
CB49	BIT	1,C	CB85	RES	0,L
CB4A	BIT	1,D	CB86	RES	0,(HL)
CB4B	BIT	1,E	CB87	RES	0,A
CB4C	BIT	1,H	CB88	RES	1,B
CB4D	BIT	1,L	CB89	RES	1,C
CB4E	BIT	1,(HL)	CB8A	RES	1,D
CB4F	BIT	1,A	CB8B	RES	1,E
CB50	BIT	2,B	CB8C	RES	1,H
CB51	BIT	2,C	CB8D	RES	1,L
CB52	BIT	2,D	CB8E	RES	1,(HL)
CB53	BIT	2,E	CB8F	RES	1,A
CB54	BIT	2,H	CB90	RES	2,B
CB55	BIT	2,L	CB91	RES	2,C
CB56	BIT	2,(HL)	CB92	RES	2,D
CB57	BIT	2,A	CB93	RES	2,E
CB58	BIT	3,B	CB94	RES	2,H

CB95	RES	2,L	CPD1	SET	2,C
CB96	RES	2,(HL)	CD2	SET	2,D
CB97	RES	2,A	CD3	SET	2,E
CB98	RES	3,B	CD4	SET	2,H
CB99	RES	3,C	CD5	SET	2,L
CB9A	RES	3,D	CD6	SET	2,(HL)
CB9B	RES	3,E	CD7	SET	2,A
CB9C	RES	3,H	CD8	SET	3,B
CB9D	RES	3,L	CD9	SET	3,C
CB9E	RES	3,(HL)	CDA	SET	3,D
CB9F	RES	3,A	CDB	SET	3,E
CBA0	RES	4,B	CDC	SET	3,H
CBA1	RES	4,C	CDD	SET	3,L
CBA2	RES	4,D	CDE	SET	3,(HL)
CBA3	RES	4,E	CDF	SET	3,A
CBA4	RES	4,H	CBE0	SET	4,B
CBA5	RES	4,L	CBE1	SET	4,C
CBA6	RES	4,(HL)	CBE2	SET	4,D
CBA7	RES	4,A	CBE3	SET	4,E
CBA8	RES	5,B	CBE4	SET	4,H
CBA9	RES	5,C	CBE5	SET	4,L
CBAA	RES	5,D	CBE6	SET	4,(HL)
CBAB	RES	5,E	CBE7	SET	4,A
CBAC	RES	5,H	CBE8	SET	5,B
CBAD	RES	5,L	CBE9	SET	5,C
CBAE	RES	5,(HL)	CBEA	SET	5,D
CBAF	RES	5,A	CBEB	SET	5,E
CBB0	RES	6,B	CBEC	SET	5,H
CBB1	RES	6,C	CBED	SET	5,L
CBB2	RES	6,D	CEE	SET	5,(HL)
CBB3	RES	6,E	CEF	SET	5,A
CBB4	RES	6,H	CBF0	SET	6,B
CBB5	RES	6,L	CBF1	SET	6,C
CBB6	RES	6,(HL)	CBF2	SET	6,D
CBB7	RES	6,A	CBF3	SET	6,E
CBB8	RES	7,B	CBF4	SET	6,H
CBB9	RES	7,C	CBF5	SET	6,L
CBBA	RES	7,D	CBF6	SET	6,(HL)
CBBB	RES	7,E	CBF7	SET	6,A
CBBC	RES	7,H	CBF8	SET	7,B
CBBD	RES	7,L	CBF9	SET	7,C
CBBE	RES	7,(HL)	CBFA	SET	7,D
CBBF	RES	7,A	CBFB	SET	7,E
CBC0	SET	0,B	CBFC	SET	7,H
CBC1	SET	0,C	CBFD	SET	7,L
CBC2	SET	0,D	CBFE	SET	7,(HL)
CBC3	SET	0,E	CBFF	SET	7,A
CBC4	SET	0,H	CCqppp	CALL	Z,NN
CBC5	SET	0,L	CDqppp	CALL	NN
CBC6	SET	0,(HL)	CENN	ADC	A,N
CBC7	SET	0,A	CF	RST	08H
CBC8	SET	1,B	D0	RET	NC
CBC9	SET	1,C	D1	POP	DE
CBCA	SET	1,D	D2qppp	JP	NC,NN
CBCB	SET	1,E	D3nn	OUT	(N),A
CBCC	SET	1,H	D4qppp	CALL	NC,NN
CBCD	SET	1,L	D5	PUSH	DE
CBCE	SET	1,(HL)	D6nn	SUB	N
CBCF	SET	1,A	D7	RST	10H
CBD0	SET	2,B	D8	RET	C

D9	EXX		DDCByyBE	RES	7,(IX+IND)
DAqqpp	JP	C,NN	DDCByyC6	SET	0,(IX+IND)
DBnn	IN	A,(N)	DDCByyCE	SET	1,(IX+IND)
DCqqpp	CALL	C,NN	DDCByyD6	SET	2,(IX+IND)
DD09	ADD	IX,BC	DDCByyDE	SET	3,(IX+IND)
DD19	ADD	IX,DE	DDCByyE6	SET	4,(IX+IND)
DD21qqpp	LD	IX,NN	DDCByyEE	SET	5,(IX+IND)
DD22qqpp	LD	(NN),IX	DDCByyF6	SET	6,(IX+IND)
DD23	INC	IX	DDCByyFE	SET	7,(IX+IND)
DD29	ADD	IX,IX	DDE1	POP	IX
DD2Aqqpp	LD	IX,(NN)	DDE3	EX	(SP),IX
DD2B	DEC	IX	DDE5	PUSH	IX
DD34yy	INC	(IX+IND)	DDE9	JP	(IX)
DD35yy	DEC	(IX+IND)	DDF9	LD	SP,IX
DD36yyynn	LD	(IX+IND),N	DEnn	SBC	A,N
DD39	ADD	IX,SP	DF	RST	18H
DD46yy	LD	B,(IX+IND)	E0	RET	PO
DD4Eyy	LD	C(IX+IND)	E1	POP	HL
DD56yy	LD	D,(IX+IND)	E2qqpp	JP	PO,NN
DD5Eyy	LD	E,(IX+IND)	E3	EX	(SP),HL
DD66yy	LD	H,(IX+IND)	E4qqpp	CALL	PO,NN
DD6Eyy	LD	L,(IX+IND)	E5	PUSH	HL
DD70yy	LD	(IX+IND),B	E6nn	AND	N
DD71yy	LD	(IX+IND),C	E7	RST	20H
DD72yy	LD	(IX+IND),D	E8	RET	PE
DD73yy	LD	(IX+IND),E	E9	JP	(HL)
DD74yy	LD	(IX+IND),H	EAqqpp	JP	PE,NN
DD75yy	LD	(IX+IND),L	EB	EX	DE,HL
DD77yy	LD	(IX+IND),A	ECqqpp	CALL	PE,NN
DD7Eyy	LD	A,(IX+IND)	ED40	IN	B,(C)
DD86yy	ADD	A,(IX+IND)	ED41	OUT	(C),B
DD8Eyy	ADC	A,(IX+IND)	ED42	SBC	HL,BC
DD96yy	SUB	(IX+IND)	ED43qqpp	LD	(NN),BC
DD9Eyy	SBC	A,(IX+IND)	ED44	NEG	
DDA6yy	AND	(IX+IND)	ED45	RETN	
DDAEyy	XOR	(IX+IND)	ED46	IM	0
DDB6yy	OR	(IX+IND)	ED47	LD	I,A
DDBEyy	CP	(IX+IND)	ED48	IN	C,(C)
DDCByy06	RLC	(IX+IND)	ED49	OUT	(C),C
DDCByy0E	RRC	(IX+IND)	ED4A	ADC	HL,BC
DDCByy16	RL	(IX+IND)	ED4Bqqpp	LD	BC,(NN)
DDCByy1E	RR	(IX+IND)	ED4D	RETI	
DDCByy26	SLA	(IX+IND)	ED4F	LD	R,A
DDCByy2E	SRA	(IX+IND)	ED50	IN	D,(C)
DDCByy3E	SRL	(IX+IND)	ED51	OUT	(C),D
DDCByy46	BIT	0,(IX+IND)	ED52	SBC	HL,DE
DDCByy4E	BIT	1,(IX+IND)	ED53qqpp	LD	(NN),DE
DDCByy56	BIT	2,(IX+IND)	ED56	IM	1
DDCByy5E	BIT	3,(IX+IND)	ED57	LD	A,I
DDCByy66	BIT	4,(IX+IND)	ED58	IN	E,(C)
DDCByy6E	BIT	5,(IX+IND)	ED59	OUT	(C),E
DDCByy76	BIT	6,(IX+IND)	ED5A	ADC	HL,DE
DDCByy7E	BIT	7,(IX+IND)	ED5Bqqpp	LD	DE,(NN)
DDCByy86	RES	0,(IX+IND)	ED5E	IM	2
DDCByy8E	RES	1,(IX+IND)	ED5F	LD	A,R
DDCByy96	RES	2,(IX+IND)	ED60	IN	H,(C)
DDCByy9E	RES	3,(IX+IND)	ED61	OUT	(C),H
DDCByyA6	RES	4,(IX+IND)	ED62	SBC	HL,HL
DDCByyAE	RES	5,(IX+IND)	ED67	RRD	
DDCByyB6	RES	6,(IX+IND)	ED68	IN	L,(C)



ED69	OUT	(C),L	FD66yy	LD	H,(IY+IND)
ED6A	ADC	HL,HL	FD6Eyy	LD	L,(IY+IND)
ED6F	RLD		FD70yy	LD	(IY+IND),B
ED70	IN	F,(C)	FD71yy	LD	(IY+IND),C
ED72	SBC	HL,SP	FD72yy	LD	(IY+IND),D
ED73qqpp	LD	(NN),SP	FD73yy	LD	(IY+IND),E
ED78	IN	A,(C)	FD74yy	LD	(IY+IND),H
ED79	OUT	(C),A	FD75yy	LD	(IY+IND),L
ED7A	ADC	HL,SP	FD77yy	LD	(IY+IND),A
ED7Bqqpp	LD	SP,(NN)	FD7Eyy	LD	A,(IY+IND)
EDA0	LDI		FD86yy	ADD	A,(IY+IND)
EDA1	CPI		FD8Eyy	ADC	A,(IY+IND)
EDA2	INI		FD96yy	SUB	(IY+IND)
EDA3	OUTI		FD9Eyy	SBC	A,(IY+IND)
EDA8	LDD		FDA6yy	AND	(IY+IND)
EDA9	CPD		FDAEyy	XOR	(IY+IND)
EDAA	IND		FDB6yy	OR	(IY+IND)
EDAB	OUTD		FDBEyy	CP	(IY+IND)
EDB0	LDIR		FDCByy06	RLC	(IY+IND)
EDB1	CPIR		FDCByy0E	RRC	(IY+IND)
EDB2	INIR		FDCByy16	RL	(IY+IND)
EDB3	OTIR		FDCByy1E	RR	(IY+IND)
EDB8	LDDR		FDCByy26	SLA	(IY+IND)
EDB9	CPDR		FDCByy2E	SRA	(IY+IND)
EDBA	INDR		FDCByy3E	SRL	(IY+IND)
EDBB	OTDR		FDCByy46	BIT	0,(IY+IND)
EEnn	XOR	N	FDCByy4E	BIT	1,(IY+IND)
EF	RST	28H	FDCByy56	BIT	2,(IY+IND)
F0	RET	P	FDCByy5E	BIT	3,(IY+IND)
F1	POP	AF	FDCByy66	BIT	4,(IY+IND)
F2qqpp	JP	P,NN	FDCByy6E	BIT	5,(IY+IND)
F3	DI		FDCByy76	BIT	6,(IY+IND)
F4qqpp	CALL	P,NN	FDCByy7E	BIT	7,(IY+IND)
F5	PUSH	AF	FDCByy86	RES	0,(IY+IND)
F6nn	OR	N	FDCByy8E	RES	1,(IY+IND)
F7	RST	30H	FDCByy96	RES	2,(IY+IND)
F8	RET	M	FDCByy9E	RES	3,(IY+IND)
F9	LD	SP,HL	FDCByyA6	RES	4,(IY+IND)
FAqqpp	JP	M,NN	FDCByyAE	RES	5,(IY+IND)
FB	EI		FDCByyB6	RES	6,(IY+IND)
FCqqpp	CALL	M,NN	FDCByyBE	RES	7,(IY+IND)
FD09	ADD	IY,BC	FDCByyC6	SET	0,(IY+IND)
FD19	ADD	IY,DE	FDCByyCE	SET	1,(IY+IND)
FD21qqpp	LD	IY,NN	FDCByyD6	SET	2,(IY+IND)
FD22qqpp	LD	(NN),IY	FDCByyDE	SET	3,(IY+IND)
FD23	INC	IY	FDCByyE6	SET	4,(IY+IND)
FD29	ADD	IY,IY	FDCByyEE	SET	5,(IY+IND)
FD2Aqqpp	LD	IY,(NN)	FDCByyF6	SET	6,(IY+IND)
FD2B	DEC	IY	FDCByyFE	SET	7,(IY+IND)
FD34yy	INC	(IY+IND)	FDE1	POP	IY
FD35yy	DEC	(IY+IND)	FDE3	EX	(SP),IY
FD36yyynn	LD	(IY+IND),N	FDE5	PUSH	IY
FD39	ADD	IY,SP	FDE9	JP	(IY)
FD46yy	LD	B,(IY+IND)	FDF9	LD	SP,IY
FD4Eyy	LD	C,(IY+IND)	FEnn	CP	N
FD56yy	LD	D,(IY+IND)	FF	RST	38H
FD6Eyy	LD	L,(IY+IND)			