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	MIX Alphar	od	es					MIX A Summary of Operations in Operation-Code Order									
SYMBOL		CODE												ATION			
	Computer	Paper Tape								_	INSTR.FORMAT				ABR		INAME
MIX	and		Channel			Punch	<u>+</u>	AA	<u> </u>	F L:R	C	NOP		NO OPERATION			
and	Magnetic								Card	_	aaaa		L:R	01	ADD	0:5	ADD
Printer	Tape	X	0	_	8	4	2	1		_		-	06	01	FADD	0.5	FLOATING ADD
(Space)	00	_	Ļ	√	L	lacksquare		Н	(Blank)	_	aaaa	-	L:R	02	SUB	0:5	SUBTRACT
A	01	_	_	H	H	┝	Ļ	1	12 1	_		_	06	02	FSUB	0.5	FLOATING SUBTRACT
B	02	_	_	V	H	┝	2	1	12 2	_	aaaa	_	L:R	03	MUL	0:5	MULTIPLY
<u>C</u>	03	X	_	\ <u>'</u>	H	 1	2	1	12 3	_	aaaa	_	06	03	FMUL	0.5	FLOATING MULTIPLY
E	04 05	X	0	V	H	4		1	12 4 12 5	_	aaaa	_	L:R	03	DIV	0:5	DIVIDE
F	06	X	0	V	H	4	2	러	12 6	_	aaaa	_	06	04	FDIV	0.5	FLOATING DIVIDE
<u>'</u>	07	X	0	Ė	H	4	2	1	12 7		aaaa	-	00	05	NUM		CONVERT TO NUMERIC
<u> </u>	08	X	_		8	H	É	Ť	12 8		aaaa		01	05	CHAR		CONVERT TO CHARACTERS
	09	X	_	√	8	Н		1	12 9		aaaa	-	02	05	HLT		HALT
Δ	10	X		√	Ť	Г		Ť	12	_		_	00	06	SLA		SHIFT LEFT A
J	11	Х		√				1	11 1	_	aaaa	-	01	06	SRA		SHIFT RIGHT A
K	12	Х		√			2		11 2	_	aaaa		02	06	SLAX		SHIFT LEFT AX
L	13	Х			Г	Г	2	1	11 3	_	aaaa		02	06	SRAX		
M	14	Х		√	Г	4			11 4	_	aaaa	_	03				SHIFT RIGHT AX
N	15	Х			Г	4		1	11 5	_	aaaa	_		06	SLC		SHIFT LEFT AX CIRCULARLY
0	16	Χ				4	2		11 6		aaaa		05 N	06 07	SRC	1	SHIFT RIGHT AX CIRCULARLY
Р	17	Χ		V		4	2	1	11 7		aaaa				MOVE	1	MOVE WORDS
Q	18	Χ			8				11 8	_	aaaa			08+[r]	LD[r]	0:5	LOAD
R	19	Χ			8			1	11 9	_	aaaa			16+[r]		_	LOAD r NEGATIVE
Σ	20	Χ							11		aaaa			24+[r]	ST[r]	0:5	STORE
П	21		0						0 1		aaaa	-		32	STJ	0:2	STORE J
S	22		0	√	L	L	2	Ц	0 2	_	aaaa	_	L:R	33	STZ	0:5	STORE ZERO
T	23		0	Ļ			2	1	0 3		aaaa	-	U	34	JBUS	0	JUMP BUSY
U	24		0	٧		4			0 4	_	aaaa	-	U	35	IOC	0	I/O CONTROL
V	25		0		L	4		1	0 5	_	aaaa	-	U	36	IN		INPUT
W	26	L	0	ļ ,	L	4	2	Ц	0 6	_	aaaa	_	U	37	OUT	0	OUTPUT
X	27	L	0	ا	Ļ	4	2	1	0 7	_	aaaa	-	U	38	JRED	0	JUMP READY
<u>Y</u>	28	L	0	٧	8	lacksquare		\perp	0 8	_	aaaa	-	00	39	JMP		JUMP
Z	29	H	0	./	8		Ļ	1	0 9	_	aaaa	_	01	39	JSJ		JUMP SAVE J
0 (Zero)	30	H		√	8	┝	2	1	0	_	aaaa	-	02	39	JOV		JUMP ON OVERFLOW
1	31	-	H		H	┝	_	1	1	±	aaaa	i	03	39	JNOV		JUMP ON NO OVERFLOW
2	32			V		_	2	1	2	±	aaaa	i	04	39	JL		JUMP ON LESS
3 4	33	⊢	┝	Ľ	⊢	1	_	븬	3	±	aaaa	i	05	39	JE		JUMP ON EQUAL
5	34 35	H	H	V	\vdash	4		1	5	±	aaaa	i	06	39	JG		JUMP ON GREATER
6	36	H	H	V	Н	4	2	$^{+}$	6	_	aaaa		07	39	JGE		JUMP ON GREATER-OR-EQUAL
7	37	H		Ė	H	4		1	7	±	aaaa	i	80	39	JNE		JUMP ON UNEQUAL
8	38	Н			8	┷	_	_	8	±	aaaa	i	09	39	JLE		JUMP ON LESS-OR-EQUAL
9	39			√	8	l		1	9		aaaa		00	40+[r]			JUMP r NEGATIVE
	40	Х	0		8	\vdash	2	Ť	12 2-8	±	aaaa	i	01	40+[r]			JUMP r ZERO
<u> </u>	41	_	-	Ė	8	H	2	1	12 3-8	+	aaaa	i	02	40+[r]	J[r]P		JUMP r POSITIVE
	42	_	0	V	8	_	Ħ	Ť	12 4-8		aaaa	i	03	40+[r]	J[r]NN		JUMP r NONNEGATIVE
$\overline{}$	43	_	0			4		1	12 5-8		aaaa	i	04	40+[r]	J[r]NZ		JUMP r NONZERO
+	44	_	0		_	4		Ħ	12 6-8		aaaa	i		40+[r]			JUMP r NONPOSITIVE
-	45	Х	_		8	_	2	1	12 7-7	±	aaaa	i		48+[r]			INCREASE r
*	46	Х			8	_	2	П	11 2-8	±	aaaa	i		48+[r]			DECREASE r
	47	Х		√	8		2	1	11 3-8	±	aaaa	i	02	48+[r]	ENT[r]		ENTER r
=	48	Х			_	4			11 4-8		aaaa	i	03	48+[r]	ENN[r]		ENTER NEGATIVE r
\$	49	Х		√	8	4		1	11 5-8		aaaa	i	L:R	56+[r]	CMP[r]	0:5	COMPARE r
<	50	Χ		√	8	4	2		11 6-8	±	aaaa	i	06	56	FCMP		FLOATING COMPARE
>	51	Χ			8	4	2	1	11 7-8		r]: rA=0	0,	rl1, rl	2, rl3, rl	14, rl5, rl6,	, rX=7	
@	52		0		8		2		0 2-8								

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0 8 4 0 √ 8 4

0 3-8

0 4-8 0 5-8