Fetch	function	add	F1	F2	F3	cd	br	br_Add
BIPUSH	fetch	0	RIR	INCPC	NOP	U	MAP	0
SIPPORT 3	nop	1	NOP	NOP	NOP	U	JMP	FETCH
GOTO 4	BIDLICH	2	CLROP3-1	INC4SP	MTOP0	U	JMP	NEXT
Section Sect	DIFUSIT	3		INCPC	OPTMSP	U	JMP	FETCH
IADD	GOTO	4			SELFADDPC	U	JMP	FETCH
ADD		<u>5</u>	MSPTDR	DEC4SP		U	JMP	NEXT
ACSDR	IADD	<u>6</u>	MTAC			U	JMP	NEXT
Part		<u>7</u>			ACSDR	U	JMP	NEXT
IFEQ				TMPTMSP			JMP	FETCH
IFEQ			MSPTDR	DEC4SP				NEXT
12							JMP	
13	IFEQ				SELFADDPC			
14	<u> </u>	12				•		
IFLT		13		INCPC				FETCH
IFLT	<u> </u>	14	MSPTDR	DEC4SP			JMP	NEXT
17		15				SD	JMP	
18	IFLT	16		INCPC			JMP	NEXT
19		17		INCPC		U	JMP	FETCH
15 15 15 15 15 15 15 15		18			SELFADDPC	U	JMP	FETCH
If_icmpeq 21		19	MSPTDR	DEC4SP		U	JMP	NEXT
100 22	If_icmpeq	20	MSPTAC	DEC4SP		U	JMP	NEXT
23		21			ACMDR	U	JMP	NEXT
SELFADDPC		22			TMPTAC	U	JMP	NEXT
100 100		23				AAC	JMP	
Decision Decision		24			SELFADDPC	U	JMP	FETCH
Decision Decision		25		INCPC		U	JMP	NEXT
Decision Decision		26		INCPC		U	JMP	FETCH
100 100		27	CLROP3-1		MTOP0	U	JMP	NEXT
10	linc	28	OPTLV	INCPC		U	JMP	NEXT
31	IIIIC	29	MLVTDR			U	JMP	NEXT
32		30	CLROP3-1	INCPC	MTOP0	U	JMP	NEXT
33 TMPTMLV		31			OPTAC	U	JMP	NEXT
1LOAD		32			ACSDR	U	JMP	NEXT
ILOAD		33		TMPTMLV		U	JMP	FETCH
SUB SETTING SETTING		34	CLROP3-1		MTOP0	U	JMP	NEXT
36	ILOAD	35		INCPC			JMP	NEXT
38 MSPTDR DEC4SP	ILOAD	36	MLVTDR	INC4SP			JMP	NEXT
Store 39		37			DRTM	U	JMP	FETCH
IStore	_	38	MSPTDR	DEC4SP		U	JMP	NEXT
41 OPTLV INCPC U JMP NEXT 42 DRTMLV U JMP FETCH 43 MSPTDR DEC4SP U JMP NEXT 44 MSPTAC U JMP NEXT		39	CLROP3-1			U	JMP	NEXT
42 DRTMLV U JMP FETCH 43 MSPTDR DEC4SP U JMP NEXT 44 MSPTAC U JMP NEXT	IStore	40			MTOP0	U	JMP	NEXT
43 MSPTDR DEC4SP U JMP NEXT U JMP NEXT U JMP NEXT		41	OPTLV	INCPC		U	JMP	NEXT
ISUB 44 MSPTAC U JMP NEXT		42		DRTMLV		U	JMP	FETCH
ISUB		43	MSPTDR	DEC4SP		U	JMP	NEXT
45 ACMDR U JMP NEXT	ICLID	44	MSPTAC			U	JMP	NEXT
	1306	45			ACMDR	U	JMP	NEXT

	46		TMPTMSP		U	JMP	FETCH
DUID	47	MSPTDR	INC4SP		U	JMP	NEXT
DUP	48			DRTM	U	JMP	FETCH
	49	MSPTDR	DEC4SP		U	JMP	NEXT
	50	MSPTAC			U	JMP	NEXT
LAND	51	AND			U	JMP	NEXT
	52		TMPTMSP		U	JMP	FETCH
	53	MSPTDR	DEC4SP		U	JMP	NEXT
	54	MSPTAC			U	JMP	NEXT
swap	55		INC4SP	DRTM	U	JMP	NEXT
	56		ACTTMP		U	JMP	NEXT
	57		TMPTMSP		U	JMP	FETCH
wide	58	FLAGON			U	JMP	FETCH
	59	MSPTDR	DEC4SP		U	JMP	NEXT
IOD	60	MSPTAC			U	JMP	NEXT
IOR	61	OR			U	JMP	NEXT
ļ	62		TMPTMSP		U	JMP	FETCH
LDC_W	63			MPCTCPP	U	JMP	NEXT
	64		INC4SP	MCPPTDR	U	JMP	NEXT
	65			DRTM	U	JMP	FETCH
POP	66		DEC4SP		U	JMP	FETCH
LDASP	67	MSPTSP	INCPC		U	JMP	NEXT
	68		INCPC		U	JMP	NEXT
	69		INCPC		U	JMP	NEXT
	70		INCPC		U	JMP	FETCH
ENVOKE	71	PCTT1	LVTT2		U	JMP	NEXT
	72		MPCTPC		U	JMP	NEXT
	73	CLROP3-2	INCPC	MPCTOP1-0	U	JMP	NEXT
	74			OPTAC	U	JMP	NEXT
	75		SPTAC	4ACTTMP	U	JMP	NEXT
	76		TMPTDR		U	JMP	NEXT
	77			ACMDR	U	JMP	NEXT
	78		INCPC	TMPTLV	U	JMP	NEXT
	79			MPCTOP1-0	U	JMP	NEXT
	80		INCPC	OPTAC	U	JMP	NEXT
	81		SPTAC	4ACTTMP	U	JMP	NEXT
	82		TMPTDR		U	JMP	NEXT
	83		INCPC	ACSDR	U	JMP	NEXT
	84		TMPTSP		U	JMP	NEXT
	85		DEC4SP	T1TMSP	U	JMP	NEXT
	86		T2TMSP		U	JMP	FETCH
RETURN	87		LVTT2		U	JMP	NEXT
	88	MSPTLV			U	JMP	NEXT
	89			MSPTPC	U	JMP	NEXT
	90		T2TSP		U	JMP	FETCH

br_add	f1[22:19]	f2[18:15]	f3[14:11]	cd[10:9]	br[8:7]	add[6:0]
0	01	01	00	00	11	0
0	00	00	00	00	00	0
3	100	10	01	00	00	11
0	00	01	10	00	00	0
0	00	00	11	00	00	0
6	10	11	00	00	00	110
7	00	00	00	00	00	111
8	00	00	101	00	00	1000
0	00	100	00	00	00	0
10	10	11	00	00	00	1010
12	00	00	00	11	00	1100
12	00	00	11	00	00	1100
13	00	01	00	00	00	1101
0	00	01	00	00	00	0
15	10	11	00	00	00	1111
18	00	00	00	01	00	10010
17	00	01	00	00	00	10001
0	00	01	00	00	00	0
0	00	00	11	00	00	0
20	10	11	00	00	00	10100
21	11	11	00	00	00	10101
22	00	00	100	00	00	10110
23	00	00	1000	00	00	10111
25	00	00	00	10	00	11001
0	00	00	11	00	00	00
26	00	01	00	00	00	11010
0	00	01	00	00	00	0
28	100	00	<u>01</u>	00	00	11100
29	101	01	00	00	00	11101
30	1001	00	00	00	00	11110
31	100	01	01	00	00	11111
32	00	00	1001	00	00	100000
33	00	00	101	00	00	100001
0	00	101	00	00	00	0
35	100	00	01	00	00	100011
36	101	01	00	00	00	100100
37	1001	10	00	00	00	100101
0	00	00	111	00	00	0
39	10	. <u> </u>	00	00	00	100111
40	100	00	00	00	00	101000
41	00_	00	01	00	00	101001
42	101	01	00	00	00	101010
0	00	1000	00	00	00	0
44-	10	11	00	00	00	101100
45	11	00	00	00	00	101101
46	00	00	100	00	00	101110

0	I 00	100		00	00	0
48	10	100	00	00	00	110000
0	00	00	111	00	00	0
50	10	11	00	00	00	110010
51	-	00	00	00	00	110010
	111	00		00	00	110100
0	00	100	00	00	00	0
54	10	11	00	00	00	110110
55				00	00	110110
- <u>-</u> 56	00	10	<u></u>	00	00	111000
57	j	<u>10</u>	<u></u>	00	00	111000
	00			00	00	
0		100	00			0
0	1011	00	00	00	00	0
60	10	11	00	00	00	111100
61	11	00	00	00	00	111101
62	1000	00	00	00	00	111110
0	00	100	00	00	00	0
64	00	00	1011	00	00	1000000
65	00	10	1010	00	00	1000001
0	00	00	<u>111</u>	00	00	0
0	00	11	00	00	00	0
68	1100	01	00	00	00	1000100
69	00	01	00	00	00	1000101
70	00	01	00	00	00	1000110
0	00	01	00	00	00	0
72	110	1010	00	00	00	1001000
73	00	1001	00	00	00	1001001
74	1101	01	1100	00	00	1001010
75	00	00	1001	00	00	1001011
76	00	1011	1101	00	00	1001100
77	00	1110	00	00	00	1001101
78	00	00	100	00	00	1001110
79	00	01	1110	00	00	1001111
80	00	00	1100	00	00	1010000
81	00	01	1001	00	00	1010001
82	00	1011	1101	00	00	1010010
83	00	1110	00	00	00	1010011
84	00	01	101	00	00	1010100
85	00	1100	00	00	00	1010101
86	00	11	1111	00	00	1010110
0	00	1101	00	00	00	0
88	00	1010	00	00	00	1011000
89	1111	00	00	00	00	1011001
90	00	00	110	00	00	1011010
0	00	1111	00	00	00	0

verilog codes	
array[0] = 23'b00010001000000110000000;	//fetch
array[1] = 23'b000000000000000000000000000000000000	//nop
array[2] = 23'b0100001000010000000011;	//BIPUSH
array[3] = 23'b0000001001000000000000;	//
array[4] = 23'b000000000110000000000;	//GOTO
array[5] = 23'b0010001100000000000110;	//IADD
array[6] = 23'b00000000000000000000111;	//
array[7] = 23'b0000000010100000001000;	 //
array[8] = 23'b0000010000000000000000000000000000000	//
array[9] = 23'b001000110000000001010;	//IFEQ
array[10] = 23'b000000000011000001100;	//
array[11] = 23'b0000000001100000001100;	 //
array[12] = 23'b000000100000000001101;	//
array[13] = 23'b0000001000000000000000;	//
array[14] = 23'b0010001100000000001111;	//IFLT
array[15] = 23'b000000000001000010010;	//
array[16] = 23'b000000100000000010001;	//
array[17] = 23'b0000001000000000000000000000000000000	//
array[18] = 23'b0000000001100000000000;	//
array[19] = 23'b0010001100000000010100;	//If_icmpeq
array[20] = 23'b0011001100000000010101;	//
array[21] = 23'b000000001000000010110;	//
array[22] = 23'b000000010000000010111;	//
array[23] = 23'b0000000000010000011001;	//
array[24] = 23'b0000000001100000000000;	//
array[25] = 23'b000000100000000011010;	//
array[26] = 23'b000000100000000000000;	//
array[27] = 23'b0100000000100000011100;	//linc
array[28] = 23'b0101000100000000011101;	//
array[29] = 23'b1001000000000000011110;	//
array[30] = 23'b01000001000100000011111;	//
array[31] = 23'b0000000100100000100000;	//
array[32] = 23'b0000000010100000100001;	//
array[33] = 23'b00000101000000000000000;	
array[34] = 23'b010000000010000100011;	//ILOAD
array[35] = 23'b0101000100000000100100;	//
array[36] = 23'b1001001000000000100101;	//
array[37] = 23'b000000001110000000000;	//
array[38] = 23'b0010001100000000100111;	//IStore
array[39] = 23'b010000000000000101000;	//
array[40] = 23'b000000000010000101001;	//
array[41] = 23'b0101000100000000101010;	//
array[42] = 23'b0000100000000000000000;	//ICLID
array[43] = 23'b0010001100000000101100;	//ISUB
array[44] = 23'b0011000000000000101101;	//
array[45] = 23'b000000001000000101110;	//

array[46] = 23'b0000010000000000000000000000000000000	2rray[46] = 22!h00000100000000000000000	11
array[48] = 23'b000000001110000000000; // array[49] = 23'b00100011000000000110010; //LAND array[50] = 23'b0011000000000000110100; // array[51] = 23'b0111000000000000000000000000000000000		• •
array[49] = 23'b00100011000000000110010; //LAND array[50] = 23'b0011000000000000110101; // array[51] = 23'b0111000000000000000000000000000000000		11.
array[50] = 23'b001100000000000110101; // array[51] = 23'b011100000000000000000; // array[52] = 23'b0000010000000000000000000000000000000		
array[51] = 23'b0111000000000000000000000000000000000	• • •	
array[52] = 23'b0000010000000000000000000000000000000	r - ·	• •
array[53] = 23'b00100011000000000110110; //swap array[54] = 23'b0011000000000000110111; // array[55] = 23'b00000111000000000111000; // array[56] = 23'b0000011100000000000000000000000000000		• •
array[54] = 23'b0011000000000110111;		• • • • • • • • • • • • • • • • • • • •
array[55] = 23'b0000010011100000111001; array[56] = 23'b000011100000000000000000; // array[57] = 23'b0000110000000000000000000; // array[58] = 23'b1011000000000000000000000; // array[59] = 23'b001100011000000000111101; // array[60] = 23'b001100000000000000000000000; // array[61] = 23'b0000000000000000000000000000; // array[62] = 23'b00000100000000000000000; // array[63] = 23'b000000101100001000000; // array[64] = 23'b000000111000000000000; // array[65] = 23'b000000111000000000000; // array[66] = 23'b00000011000000000000; // array[67] = 23'b110000010000000000000; // array[69] = 23'b000000110000000000000; // array[69] = 23'b00000010000000000000; // array[70] = 23'b00000010000000000000; // array[71] = 23'b110101000000000000000; // array[72] = 23'b00000010000000000000; // array[73] = 23'b0000001010000000000000; // array[74] = 23'b00000010100000001010; // array[75] = 23'b0000011110000010110; // array[76] = 23'b0000011110000010110; // array[77] = 23'b0000001111000010110; // array[78] = 23'b0000001111000010110; // array[79] = 23'b00000011110000101000; // array[80] = 23'b0000011110000101010; // array[81] = 23'b0000111100000000010100; // array[82] = 23'b00001111000000000000000; // array[83] = 23'b0000111100000000000000; // array[83] = 23'b000011110000000000000000; // array[83] = 23'b000011111000000000000000; // array[83] = 23'b000011111000000000000000; // array[83] = 23'b000011111000000000000000; // array[83] = 23'b00000111110000000000000000; // array[83] = 23'b000001111100000000000000000; // array[84] = 23'b0000011111000000000000000000000000000	• • •	
array[56] = 23'b0000011100000000111001;		• •
array[57] = 23'b0000010000000000000; array[58] = 23'b10110000000000000000; array[59] = 23'b0010001100000000011110; array[60] = 23'b0011000000000000011110; array[61] = 23'b1000000000000000000; array[62] = 23'b0000010000000000000; array[63] = 23'b00000010110000100000; array[64] = 23'b00000010110000100000; array[65] = 23'b0000001110000000000; array[66] = 23'b0000001110000000000; array[67] = 23'b11000001000000000000; array[68] = 23'b0000001000000010010; array[69] = 23'b000000010000000000000; array[70] = 23'b00000001000000000000; array[71] = 23'b01101010000000000000; array[72] = 23'b0000101100000000000000; array[73] = 23'b11000011000000000101; array[74] = 23'b0000111101000001010; array[75] = 23'b0000111101000010100; array[76] = 23'b0000001110000001011; array[77] = 23'b00000011100000001011; array[78] = 23'b000000111000000001010; array[79] = 23'b0000001110000010101; array[79] = 23'b0000001110000010101; array[79] = 23'b0000001110000010101; array[80] = 23'b000001111010000101000; array[81] = 23'b00001111010000101000; array[82] = 23'b0000111110000000000000; array[83] = 23'b000001111000000000000000; array[84] = 23'b00001111100000000000000000; array[85] = 23'b0000011111000000000000000000000000000	•	• •
array[58] = 23'b1011000000000000000000000000000000000	•	· .
array[59] = 23'b00100011000000000111100; //IOR array[60] = 23'b00110000000000000111101; // array[61] = 23'b1000000000000000000000; // array[62] = 23'b0000010000000000000; // array[63] = 23'b00000001110000100000; // array[64] = 23'b0000000011100000000000; // array[65] = 23'b00000011000000000000; //POP array[66] = 23'b000000100000000000000; //POP array[68] = 23'b00000010000000010000; // array[69] = 23'b000000100000000000000; // array[70] = 23'b00000010000000000000; // array[71] = 23'b011010100000000010000; //ENVOKE array[72] = 23'b0000101100000000100100; // array[73] = 23'b11010011100000100100; // array[74] = 23'b00001111000001001000; // array[75] = 23'b000011110000000010110; // array[78] = 23'b000000011100000101000; // array[79] = 23'b0000000110000000101000; // array[80] = 23'b00000111100000000101000; // array[81] = 23'b00001111000000000101000; // array[82] = 23'b000001111100000000000000; // array[- ' '
array[60] = 23'b0011000000000000111101;		
array[61] = 23'b1000000000000000000000000000000000000		
array[62] = 23'b0000010000000000000000000000000000000		
array[63] = 23'b00000000101100001000000; //LDC_W array[64] = 23'b00000010101000001000001; // array[65] = 23'b00000000111000000000000; // array[66] = 23'b0000001100000000000000; //POP array[67] = 23'b1100000100000000100010; //LDASP array[68] = 23'b00000010000000000000000; // array[70] = 23'b000000100000000000000; // array[71] = 23'b0110101000000000100100; // array[72] = 23'b000010110000000010010; // array[73] = 23'b10000101100000100100; // array[74] = 23'b000000011100000100101; // array[75] = 23'b0000111100000100110; // array[76] = 23'b0000111100000000100110; // array[78] = 23'b000000011100000100111; // array[78] = 23'b00000001100000101000; // array[80] = 23'b000000110000001010000; // array[81] = 23'b0000111100000000101000; // array[82] = 23'b00001111000000000101000; // array[83] = 23'b00001101000000000000000000; // array[83] = 23'b00000110100000000000000000; // array[83] = 23'b0000110100000000000000000000000000000		· · ·
array[64] = 23'b0000001010100000100001; array[65] = 23'b000000011100000000000; // array[66] = 23'b000000110000000000000; // pOP array[67] = 23'b11000001000000010010; array[68] = 23'b0000001000000010010; // array[69] = 23'b000000100000000000000; // array[70] = 23'b000000100000000000000; // array[71] = 23'b011010100000000010010; array[72] = 23'b000010110000000010010; // array[73] = 23'b10000000101000010010; // array[74] = 23'b0000101110000010010; // array[75] = 23'b0000101110000100110; // array[76] = 23'b000011110000000010110; // array[77] = 23'b000000011100000100110; // array[79] = 23'b000000011100000100111; // array[79] = 23'b000000011100000101011; // array[80] = 23'b00000001100000101000; // array[81] = 23'b000011110000000101010; // array[82] = 23'b0000111100000000101010; // array[83] = 23'b0000111100000000101010; // array[84] = 23'b000011110000000000000000; // array[85] = 23'b0000110100000000000000; // array[86] = 23'b000011010000000000000; // array[87] = 23'b0000110100000000000000; // array[88] = 23'b111100000000000000000; // array[88] = 23'b0000110100000000000000; // array[88] = 23'b0000110100000000000000; // array[89] = 23'b00001101000000000000000; // array[89] = 23'b000011010000000000000000; // array[89] = 23'b000011010000000000000000; // array[89] = 23'b000000000000000000000000000000000000		
array[65] = 23'b000000001110000000000; array[66] = 23'b00000110000000000000; //POP array[67] = 23'b11000001000000010010; array[68] = 23'b0000001000000010010; // array[69] = 23'b000000100000000000000; // array[70] = 23'b00000010000000000000; // array[71] = 23'b011010100000000010010; array[72] = 23'b000010110000000010010; // array[73] = 23'b100000011000000010010; // array[74] = 23'b0000101100000100101; // array[75] = 23'b00001011101000100101; // array[76] = 23'b00001111010000100110; // array[77] = 23'b000000011100000100111; // array[78] = 23'b0000111100000100111; // array[79] = 23'b00000001110000100111; // array[80] = 23'b00001111010000101010; // array[81] = 23'b00001111010000101010; // array[82] = 23'b00001111010000101010; // array[83] = 23'b0000111100000000101010; // array[84] = 23'b00001111110000101010; // array[85] = 23'b0000110100000000000; // array[86] = 23'b00001101000000000000; // array[87] = 23'b000011010000000000000; // array[88] = 23'b11110000000000000000; // array[88] = 23'b11110000000000000000; // array[88] = 23'b1111000000000000000000; // array[89] = 23'b00001100000000000000000; // array[89] = 23'b000011000000000000000000; // array[89] = 23'b0000000000000000000000000000000; // array[89] = 23'b000000000000000000000000000000000000		——————————————————————————————————————
array[66] = 23'b0000001100000000000000000000000000000	•	
array[67] = 23'b110000010000000100100; //LDASP array[68] = 23'b000000010000000010010; // array[69] = 23'b0000000100000000000000; // array[70] = 23'b000000010000000000000; // array[71] = 23'b01101010000000001001000; //ENVOKE array[72] = 23'b0000100100000000100100; // array[73] = 23'b1101000111000001001010; // array[74] = 23'b00000001010000100100; // array[75] = 23'b00001111010000100110; // array[76] = 23'b0000111000000010110; // array[78] = 23'b00000001110000010111; // array[78] = 23'b000000011100000101000; // array[80] = 23'b000000011000001010000; // array[81] = 23'b0000111100000000101000; // array[82] = 23'b0000111000000000101000; // array[83] = 23'b000001111110000101010; // array[84] = 23'b0000110100000000000000; // array[85] = 23'b00001101000000000000000; // array[87] = 23'b0000010100000000001011000; // array[87] = 23'b0000010100000000001011000; //	r - ·	• •
array[68] = 23'b00000001000000100110; array[69] = 23'b00000010000000000000; // array[70] = 23'b00000010000000000000; // array[71] = 23'b0110101000000000100100; array[72] = 23'b00010100000000100100; // array[73] = 23'b1101000111000001001010; // array[74] = 23'b000000010100001001010; // array[75] = 23'b000010111010000100110; // array[76] = 23'b0000101111010000100110; // array[77] = 23'b00001011100000000100110; // array[78] = 23'b0000000111100000100111; // array[79] = 23'b00000001110000010000; // array[80] = 23'b0000000110010000101000; // array[81] = 23'b00001111010000101001; // array[82] = 23'b000011110000000101010; // array[83] = 23'b0000111100000000101010; // array[84] = 23'b0000111110000101010; // array[85] = 23'b0000111110000000000000; // array[88] = 23'b000011010000000000000; // array[88] = 23'b00001010000000000000; // array[88] = 23'b000010100000000000000; // array[88] = 23'b0000101000000000000000; // array[88] = 23'b1111000000000000000000; // array[88] = 23'b00001010000000000000000; // array[88] = 23'b00001010000000000000000; // array[88] = 23'b00001010000000000000000; // array[89] = 23'b0000000000000000000000000; // array[89] = 23'b000000000000000000000000000000000000		
array[69] = 23'b0000000100000000000000000000000000000	• • •	
array[70] = 23'b000000010000000000000; array[71] = 23'b0110101000000000100100; array[72] = 23'b0000100100000000100101; array[73] = 23'b110100011100000100101; array[74] = 23'b0000000010010010101; array[75] = 23'b0000101111010000100110; array[76] = 23'b00001111000000001001101; array[77] = 23'b0000000001001001110; array[78] = 23'b00000001111000001001111; array[79] = 23'b0000000111100000101111; array[80] = 23'b000000011000001010000; array[81] = 23'b000011110100001010010; array[82] = 23'b000011110100001010101; array[83] = 23'b0000111100000000101010; array[84] = 23'b00001111110000101010; array[85] = 23'b00001111110000101010; array[86] = 23'b00001101000000000000; array[87] = 23'b000011010000000000000; array[88] = 23'b111100000000000111001; array[89] = 23'b000000001100000110101; array[89] = 23'b0000000001100000110101; array[89] = 23'b0000000001100000000101001;	•	• •
<pre>array[71] = 23'b0110101000000001001000; array[72] = 23'b00001001000000001001001; array[73] = 23'b1101000111000001001010; array[74] = 23'b0000000010100001001011; array[75] = 23'b00001011110100001001100; array[76] = 23'b00001111000000001001101; array[77] = 23'b000000001000001001101; array[78] = 23'b0000000010000010111; array[79] = 23'b00000000111100000101111; array[80] = 23'b0000000110000001010000; array[81] = 23'b000011110100001010010; array[82] = 23'b00001111010000101010; array[83] = 23'b0000111100001010100; array[84] = 23'b0000111110000101010; array[85] = 23'b00001111110000101010; array[86] = 23'b000011010000000000000; array[87] = 23'b0000110100000000000000; array[88] = 23'b111100000000001011001; array[88] = 23'b111100000000001011001; array[88] = 23'b111100000000001011010; array[89] = 23'b0000000011000000001011010; array[89] = 23'b000000000011000000000000000000; array[89] = 23'b0000000000110000000000000000000000000</pre>		
array[72] = 23'b000010010000000100101;	•	• •
array[73] = 23'b1101000111000001001010; array[74] = 23'b00000000100100001011; array[75] = 23'b00001011110100001001100; array[76] = 23'b0000111000000001001101; array[77] = 23'b0000000001001110; array[78] = 23'b00000000111100000101111; array[79] = 23'b0000000111100000101111; array[80] = 23'b000000011000001010000; array[81] = 23'b000010111010000101001; array[82] = 23'b00001111010000101001; array[83] = 23'b000011100000000101010; array[84] = 23'b0000111000000000101010; array[85] = 23'b0000111110000101010; array[86] = 23'b0000110100000000000; array[87] = 23'b00001010000000000000; array[88] = 23'b1111000000000001011001; array[88] = 23'b1111000000000001011001; array[89] = 23'b0000000011001000000000000101001; array[89] = 23'b0000000000010110000; // RETURN		
array[74] = 23'b000000010010001011;		
array[75] = 23'b00001011110100001001100; array[76] = 23'b00001110000000001001101; array[77] = 23'b000000001000001001110; array[78] = 23'b00000001111000001001111; array[79] = 23'b0000000110000001010000; array[80] = 23'b00000001100100001010001; array[81] = 23'b00001011110100001010010; array[82] = 23'b00001110000000101001; array[83] = 23'b000011010000101010; array[84] = 23'b000011010000101010; array[85] = 23'b000011111000000000000; array[86] = 23'b00001101000000000000; array[87] = 23'b000011010000000000000; array[88] = 23'b111100000000001011001; array[89] = 23'b00000001100000001011010; // array[89] = 23'b0000000011000000001011010;	•	
<pre>array[76] = 23'b0000111000000001001101; array[77] = 23'b00000000100000101110;</pre>		
<pre>array[77] = 23'b00000000100000101110; array[78] = 23'b0000000111100000101111; // array[79] = 23'b0000000110000001010000; // array[80] = 23'b00000001100100001010010; // array[81] = 23'b000011110100001010010; // array[82] = 23'b000011100000000101010; // array[83] = 23'b000011010000101010; // array[84] = 23'b0000111110000101010; // array[85] = 23'b00001111110000101010; // array[86] = 23'b0000110100000000000; // array[87] = 23'b0000110100000000000; // array[88] = 23'b111100000000001011001; // array[89] = 23'b000000001100000</pre>		
<pre>array[78] = 23'b00000001111000001001111; array[79] = 23'b0000000011001000000; array[80] = 23'b0000000110010001010001; array[81] = 23'b00001011110100001010010; array[82] = 23'b0000111000000001010011; array[83] = 23'b00001010100001010100; array[84] = 23'b0000110000000001010101; array[85] = 23'b00001111110001010110; array[86] = 23'b00001101000000000000; // array[87] = 23'b000011010000000000000; // array[88] = 23'b111100000000001011001; // array[89] = 23'b000000001100000001011010; //</pre>		
<pre>array[79] = 23'b000000011000001010000; array[80] = 23'b000000011001001010001; array[81] = 23'b00001011110100001010010; array[82] = 23'b0000111000000001010011; array[83] = 23'b000000101010000101000; array[84] = 23'b000011000000000101010; array[85] = 23'b0000011111100001010110; array[86] = 23'b000011010000000000000; // array[87] = 23'b0000110100000000000000; // array[88] = 23'b111100000000001011001; // array[89] = 23'b00000000011001010100; //</pre>		
<pre>array[80] = 23'b00000001100100001010001; array[81] = 23'b00001011110100001010010; array[82] = 23'b000011100000000101001; array[83] = 23'b000000101010000101010; array[84] = 23'b000011000000000101010; array[85] = 23'b0000011111100001010110; array[86] = 23'b00001101000000000000; array[87] = 23'b0000101000000001011000; array[88] = 23'b111100000000001011001; array[89] = 23'b000000001100000</pre>	•	//
array[81] = 23'b00001011110100001010010; // array[82] = 23'b0000111000000001010011; // array[83] = 23'b000001010100001010100; // array[84] = 23'b0000110000000001010101; // array[85] = 23'b000001111110000101010; // array[86] = 23'b00001101000000000000; // array[87] = 23'b0000101000000001011000; //RETURN array[88] = 23'b11110000000001011001; // array[89] = 23'b0000000001100101010; //		//
array[82] = 23'b0000111000000001010011; // array[83] = 23'b0000001010100001010100; // array[84] = 23'b000011000000001010101; // array[85] = 23'b000001111110000101010; // array[86] = 23'b00001101000000000000; // array[87] = 23'b0000101000000001011000; //RETURN array[88] = 23'b11110000000001011001; // array[89] = 23'b00000000110000110101; //	array[80] = 23'b00000001100100001010001;	//
array[83] = 23'b00000001010100001010100; // array[84] = 23'b0000110000000001010101; // array[85] = 23'b0000011111100001010110; // array[86] = 23'b00001101000000000000; // array[87] = 23'b0000101000000001011000; //RETURN array[88] = 23'b11110000000001011001; // array[89] = 23'b00000000011000011010; //	array[81] = 23'b00001011110100001010010;	//
array[84] = 23'b0000110000000001010101; // array[85] = 23'b0000001111110000101010; // array[86] = 23'b00001101000000000000; // array[87] = 23'b0000101000000001011000; //RETURN array[88] = 23'b11110000000001011001; // array[89] = 23'b00000000011000011010; //	array[82] = 23'b0000111000000001010011;	//
array[85] = 23'b000000111111100001010110; // array[86] = 23'b000011010000000000000; // array[87] = 23'b0000101000000001011000; //RETURN array[88] = 23'b111100000000001011001; // array[89] = 23'b00000000011000001011010; //	•	//
array[86] = 23'b000011010000000000000; // array[87] = 23'b0000101000000001011000; //RETURN array[88] = 23'b11110000000001011001; // array[89] = 23'b0000000001100001011010; //		• •
array[87] = 23'b0000101000000001011000; //RETURN array[88] = 23'b111100000000001011001; // array[89] = 23'b0000000011000001011010; //	*	//
array[88] = 23'b111100000000001011001; // array[89] = 23'b0000000011000001011010; //	•	• •
array[89] = 23'b0000000011000001011010; //	• • •	//RETURN
array[90] = 23'b00001111000000000000000000; //		
	array[90] = 23'b0000111100000000000000;	//