INUM	Instruction	Mnemonic	Format	Inputs opcode f		funct7	funct6	Control Outputs		ALUSrcA	ALUSrcB		WDsel	ST	LD	MSZ	INUM	BrOp	Input bits opcode	funct3	funct7	func6	Output bits bin	hex
					funct3			RFW				PCsel												
)	addi	ADDI	1	0010011	000	XXXXXXX	XXXXXX	1	000	0	001	00	00	0	0	00	00000	00	0ь0010011	0ь000	0bxxxxxxxx	0bxxxxxxx	0b100000010000000000000000	0x408000
1	slli	SLLI	1	0010011	001	XXXXXXX	000000	1	011	0	001	00	00	0	0	00	00001	00	0ь0010011	0ь001	0bxxxxxxxx	0ь000000	0b10110001000000000000100	0x588004
2	srli	SRLI	1	0010011	101	XXXXXXX	000000	1	100	0	001	00	00	0	0	00	00010	00	0ь0010011	0b101	0bxxxxxxxx	0ь000000	051100000100000000001000	0x608008
3	addr	ADDR	R	0110011	000	0000000	XXXXXX	1	000	0	000	00	00	0	0	00	00011	00	0ь0110011	0ь000	0ь0000000	0bxxxxxxx	0b1000000000000000001100	0x40000C
\$	mul	MUL_	R	0110011	000	0000001	XXXXXX	1	010	0	000	00	00	0	0	00	00100	00	0ь0110011	0ь000	0b0000001	0bxxxxxxx	051010000000000000010000	0x500010
5	sil	SLL_	R	0110011	001	0000000	000000	1	011	0	000	00	00	0	0	00	00101	00	0ь0110011	0ь001	0ь0000000	0ь000000	0b1011000000000000010100	0x580014
3	srl	SRL_	R	0110011	101	0000000	000000	1	100	0	000	00	00	0	0	00	00110	00	0ь0110011	0b101	060000000	0ь000000	0b1100000000000000011000	0x600018
7	and	AND_	R	0110011	111	0000000	XXXXXX	1	101	0	000	00	00	0	0	00	00111	00	0ь0110011	0b111	0ь0000000	0bxxxxxxx	0b1101000000000000011100	0x68001C
3	sub	SUB_	R	0110011	000	0100000	XXXXXX	1	001	0	000	00	00	0	0	00	01000	00	0ь0110011	0ь000	0b0100000	0bxxxxxxx	051001000000000000100000	0x480020
9	jal	JAL_	J	1101111	xxx	XXXXXXX	XXXXXX	1	000	1	010	01	01	0	0	00	01001	00	0ь1101111	0bxxx	0bxxxxxxxx	0bxxxxxxx	0b10001010010100000100100	0x452824
10	jalr	JALR	1	1100111	000	XXXXXXXX	XXXXXX	1	000	0	001	01	01	0	0	00	01010	00	0ь1100111	0ь000	0bxxxxxxxx	0bxxxxxxx	0b10000001010100000101000	0x40A828
11	beq	BEQ_	В	1100011	000	XXXXXXXX	XXXXXX	0	000	1	011	10	00	0	0	00	01011	00	0ь1100011	0ь000	0bxxxxxxxx	0bxxxxxxx	0600001011100000000101100	0x5C02C
12	bne	BNE_	В	1100011	001	XXXXXXXX	XXXXXX	0	000	1	011	10	00	0	0	00	01100	01	0ь1100011	0ь001	0bxxxxxxxx	0bxxxxxxx	0600001011100000000110001	0x5C031
13	blt	BLT_	В	1100011	100	XXXXXXX	XXXXXX	0	000	1	011	10	00	0	0	00	01101	10	0ь1100011	0b100	0bxxxxxxxx	0bxxxxxxx	0600001011100000000110110	0x5C036
14	bge	BGE_	В	1100011	101	XXXXXXX	XXXXXX	0	000	1	011	10	00	0	0	00	01110	11	0b1100011	0b101	0bxxxxxxxx	0bxxxxxxx	0600001011100000000111011	0x5C03B
15	sd	SD	S	0100011	011	XXXXXXX	XXXXXX	0	000	0	100	00	00	1	1	00	01111	00	0ь0100011	0ь011	0bxxxxxxxx	0bxxxxxxx	0600000100000011000111100	0x2063C
16	sw	SW	S	0100011	010	XXXXXXXX	XXXXXX	0	000	0	100	00	00	1	1	01	10000	00	0ь0100011	0ь010	0bxxxxxxxx	0bxxxxxxx	0600000100000011011000000	0x206C0
17	sb	SB	S	0100011	000	XXXXXXX	XXXXXX	0	000	0	100	00	00	1	1	10	10001	00	0ь0100011	0ь000	0bxxxxxxxx	0bxxxxxxx	0600000100000011101000100	0x20744
18	ld	LD	1	0000011	011	XXXXXXXX	XXXXXX	1	000	0	001	00	10	0	1	00	10010	00	0ь0000011	0ь011	0bxxxxxxxx	0bxxxxxxx	0b10000001001001001001000	0x409248
19	lw	LW	1	0000011	010	XXXXXXX	XXXXXX	1	000	0	001	00	10	0	1	01	10011	00	0ь0000011	0b010	0bxxxxxxxx	0bxxxxxxx	0ь10000001001001011001100	0x4092CC
20	lb	LB	1	0000011	000	XXXXXXXX	XXXXXX	1	000	0	001	00	10	0	1	10	10100	00	0ь0000011	0ь000	0bxxxxxxxx	0bxxxxxxx	0b10000001001001101010000	0x409350
21	or	OR	R	0110011	110	0000000	XXXXXX	1	110	0	000	00	00	0	0	00	10101	00	0ь0110011	0b110	000000000	0bxxxxxxx	0b11100000000000001010100	0x700054
																			0ь	0b	0b	0b	0ь	0x0