Control Word	Instruction	IE 15	WE 14	WA <sub>1,0</sub> 13-12	RAE 11	RAA <sub>1,0</sub> 10-9	RBE 8	RBA <sub>1,0</sub> 7-6	ALU <sub>2,1,0</sub> 5-3	SH <sub>1,0</sub> 2-1	OE 0
000	Input a	1	1	00	0	XX	0	XX	XXX	XX	0
001	Input b	1	1	01	0	XX	0	XX	XXX	XX	0
010	y=0	0	1	10	1	10	1	10	101	00	0
011	y=2	0	1	10	1	10	0	XX	110	01	0
100	y=y+a	0	1	10	1	10	1	00	100	00	0
101	y=y+b	0	1	10	1	10	1	01	100	00	0
110	a=2a	0	1	00	1	00	0	XX	000	01	0

