7.1

① a*(-b+c) — abc@c+*

② a+b*(c+d/e) — abcde/+*+

③ -a+b*(-c+d) — a@bc@d+*+

④ not A or not (C or not D) — A not C D not or not or

⑤ (A and B) or (not C or D) — AB and C not D or or

⑥ (A or B) and (C or not D and E) — AB or C D not E and or and

⑦ if (x+y)*z=0 then (a↑b)↑c else a↑b↑c

xy+z*0=ab+c↑ abc↑↑ if_then_else

7.3

-(a+b)*(c+d)-(a+b+c)

四元式序列：

	op	arg1	arg2	result
(1)	+	a	b	T_1
(2)	@	T_1	-	T_2
(3)	+	c	d	T_3
(4)	*	T_2	T_3	T_4
(5)	+	a	b	T_5
(6)	+	T_5	c	T_6
(7)	-	T_4	T_6	T_7

三元式序列：

	op	arg1	arg2
(1)	+	a	b
(2)	@	(1)	-
(3)	+	c	d
(4)	*	(2)	(3)
(5)	+	a	b
(6)	+	(5)	c
(7)	-	(5)	(6)

间接三元式序列：

(1)	(+ , a , b)
(2)	(@ , (1) , -)
(3)	(+ , c , d)
(4)	(* , (2) , (3))
(5)	(+ , (1) , c)
(6)	(- , (4) , (5))

间接码表

(1)
(2)
(3)
(4)
(1)
(5)
(6)

7.4

A := B*(-C+D)

T1 := @C

T2 := T1 + D

T3 := B*T2

A := T3

7.6

A or (B and not (C or D))

(0)

(1)	(jnz, A, -, 0)	if A goto 0
(2)	(j, -, -, 3)	goto 3
(3)	(jnz, B, -, 5)	if B goto 5
(4)	(j, -, -, 0)	goto 0
(5)	(jnz, C, -, 4)	if C goto 4
(6)	(j, -, -, 7)	goto 7
(7)	(jnz, D, -, 5)	if D goto 5
(8)	(j, -, -, 1)	goto 1.

7.7

```
while A<C and B<D do
    if A=1 then
        C := C+1
    else
        while A≤D do
            A:=A+2;
```

(1)	(j<, A, C, 3)	if A<C goto 3
(2)	(j, -, -, 16)	goto 16
(3)	(j<, B, D, 5)	if B<D goto 5
(4)	(j, -, -, 16)	goto 16
(5)	(j=, A, 1, 7)	if A=1 goto 7
(6)	(j, -, -, 10)	goto 10
(7)	(+, C, 1, T1)	T1 = C+1
(8)	(:=, T1, -, C)	C = T1
(9)	(j, -, -, 1)	goto 1
(10)	(j≤, A, D, 12)	if A≤D goto 12
(11)	(j, -, -, 1)	goto 1
(12)	(+, A, 2, T2)	T2 = A+2
(13)	(:=, T2, -, A)	A = T2
(14)	(j, -, -, 10)	goto 10
(15)	(j, -, -, 1)	goto 1

(16)