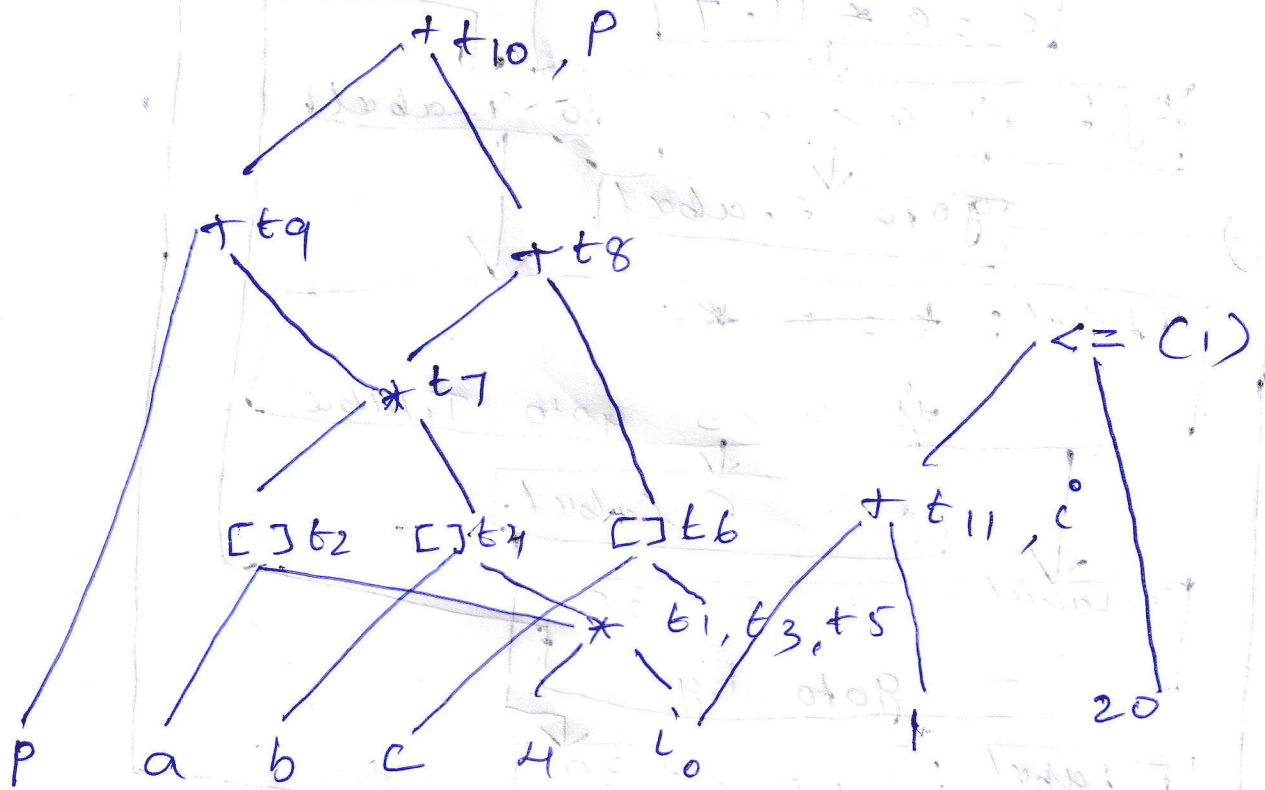


12

①

DAG.



Optimized TAC.

$$t_1 = 4 * i$$

$$t_2 = a[t_1]$$

$$t_4 = b[t_1]$$

$$t_6 = c[t_1]$$

$$t_7 = t_2 * t_4$$

$$t_8 = t_7 + t_6$$

$$t_9 = p + t_7$$

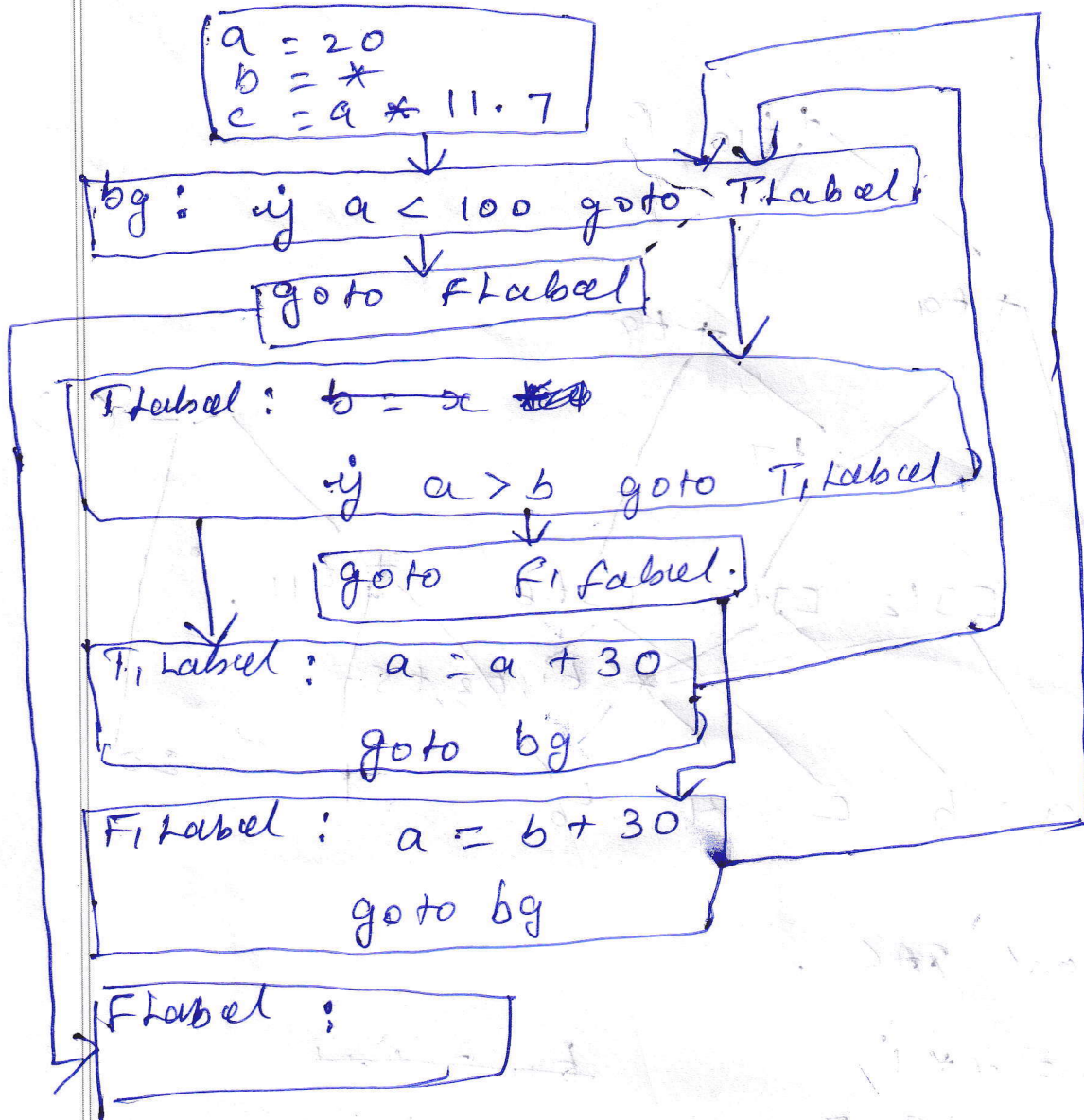
$$t_{rop} = t_8 + t_9$$

~~$$t_{11} = i + 1$$~~

$$c = i + 1$$

if $i \leq 20$ goto 4

13 TAC (Optimized)



10 Begin : if $i \leq 10$ goto Tlabel
goto Flabel

Tlabel : $t_1 = i + 1$
 $i = t_1$
 if $i \neq 0$ goto L1
 $t_2 = x * 2$
 $t_3 = t_2 + y$
 $m = t_3$ goto Begin

L1 : if $i \neq 2$ goto L3

$t_4 = x / z$

$t_5 = t_4 + y$

$m = t_5$

goto Begin

L3 : $t_6 = x + z$

$t_7 = t_6 - y$

$n = t_7$

goto Begin

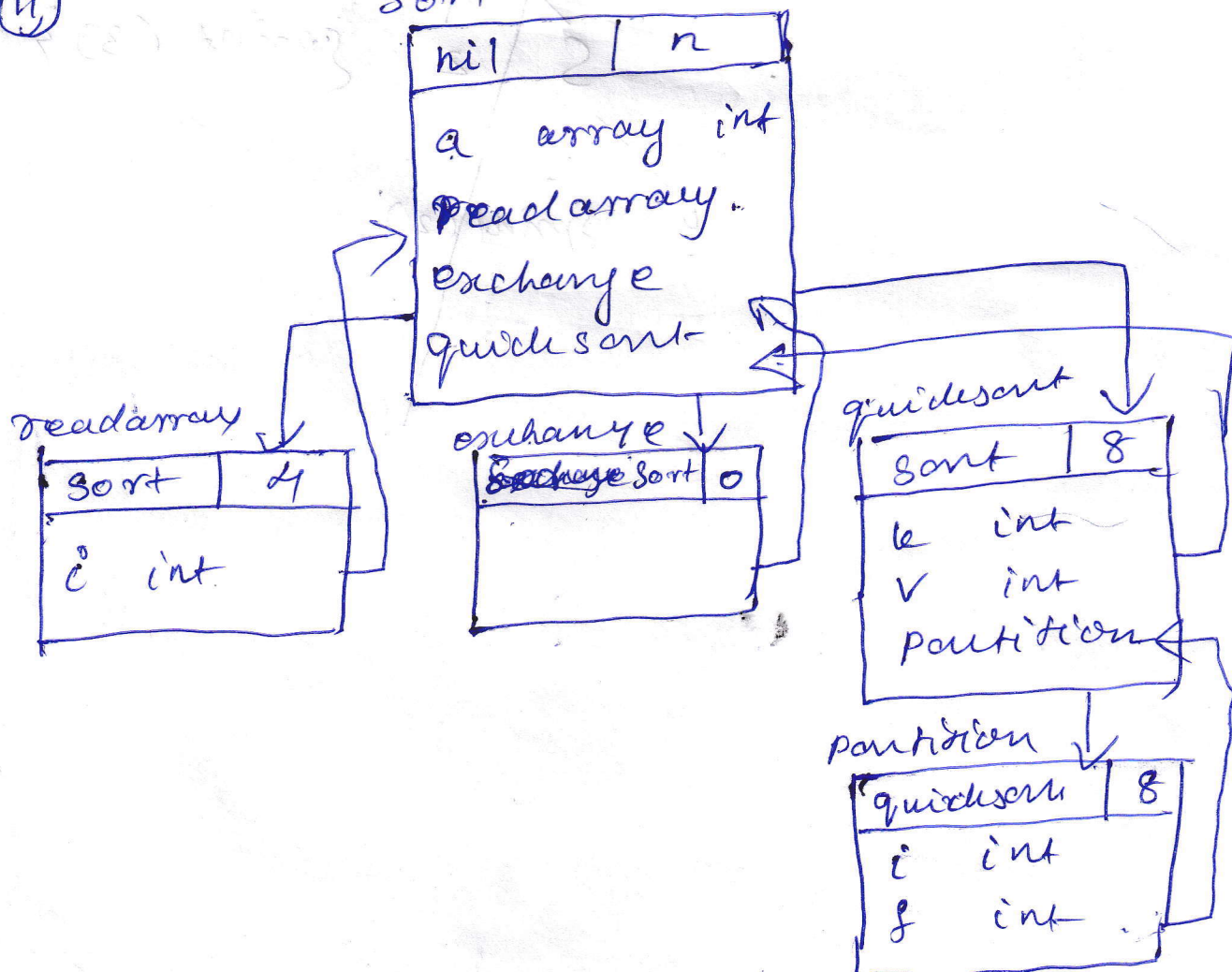
Label :

Symbol table .

id	type	addr
i	int	4
x	int	8
y	int	
z	int	
m	int	
n	int	

(11)

Sort



⑥ Leaders are

① if $a < b$ goto L1

② goto L2

③ L1 : $t1 = a + y$

④ $y = 0$

⑤ L2 : $t1 = x - y$