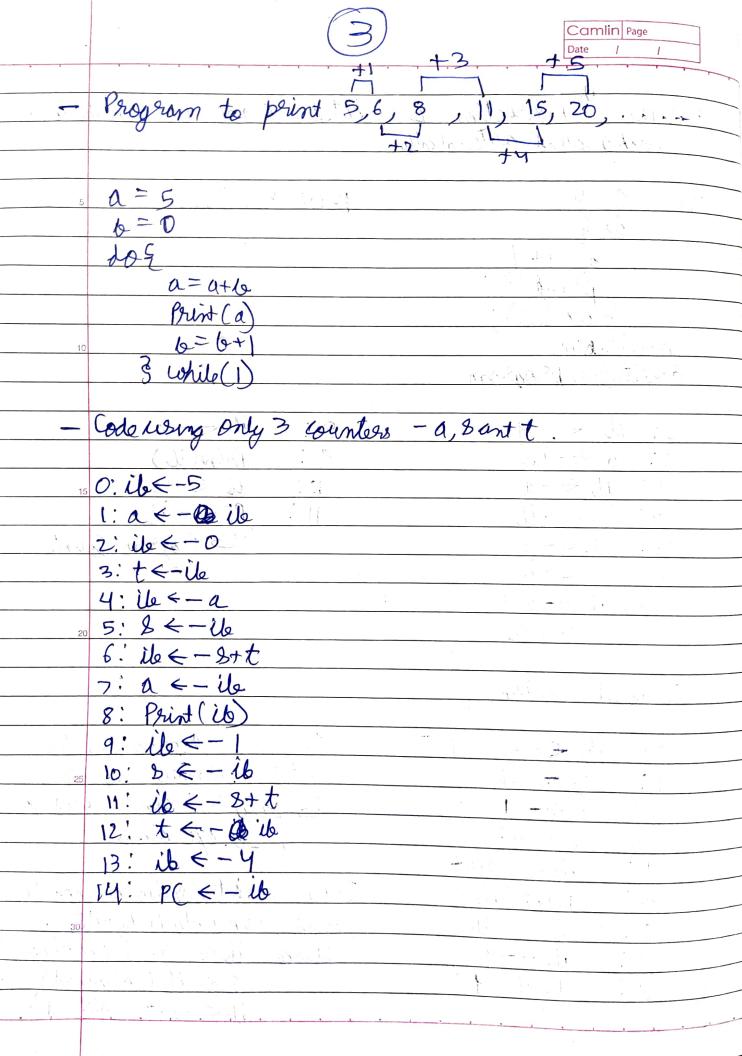


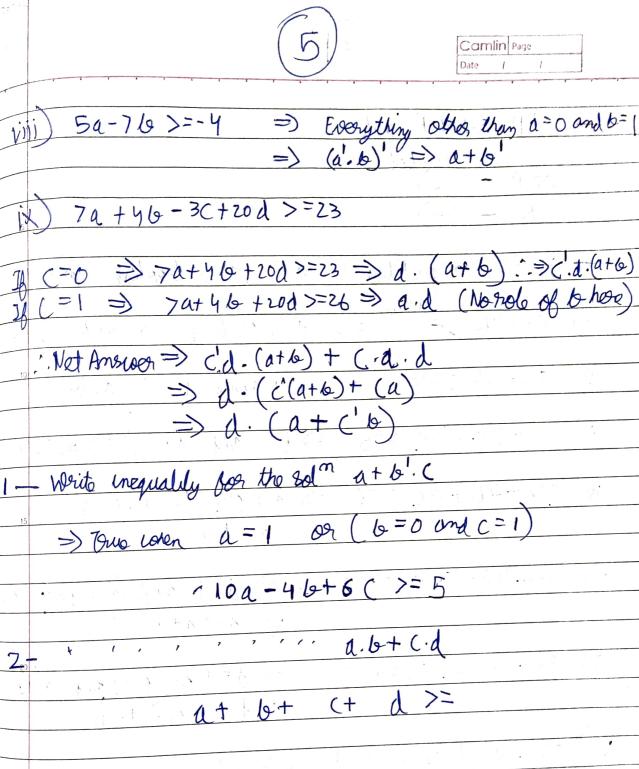
Camlin Page When o' instruction is executed, it got incremented to in background outomatically Paint 5,6,7,8, Q=4 a=a+1jprint(a); 3 corile(1); 10 Architecture Askitatus program ile < - a W831 8 0: ile <- y Print (ile) a <-ile 10: ib ← 2. 2: W <- a PC & - ile 11: 3: 8 €-16 Co Program Countes ile <-1 t €-ib 6: ib €-8+t 7: a < - ile Efficient Version a, b, C = general registers 0: ib @ <- Y 8, t = wethratic registers s <-i6 Sonly & t can be used bor ALV operations Dec - 1 t < - ile 16 < - 8+t Paint (ib) From sonat, value connot be Honce ile <- & (Not allowed) 8 < - ile ile €-4 PC < - € ib S<-ib (allowed) ile Stt. (allowed)





Camlin Page

> AND and OR gate-AND - (.) → Boolean inequalities - a, b, c, d = boolean variables i) 5a+76>=3 \Rightarrow $a=1096=1 \Rightarrow$ a+1096=1ii) 8 at 36 >= 10 => a=1 and 6=1 => a.6 iii) 3a+76+2c>=8 => b=1 and (a or c)=1=>6.(a+c) iv) 7a+46+3c>=6 => a=1091 (6=1and c=1) => a+b.c V) 7a+4b+3C+20d ==26 => d=1 and (a=1 or (b=1 and c=1 => d.(a+b.c) vi) 3a+7b+2C+20d>=8 => d=1 or (b=1 and (a=1 or c=1) Vii) 7a+46+3C+ 20d+22e>=26 => e= 1 0 and (d=10ra=1 or (b=1 and c=1) e=0 and (d=1 and (a=1 or (06=1 and (=1)) => e. (d+a+ 66.c) + d. (a+oc) => ea+ (e+a). (a+bc)



1, , , , . . . a.b+c.d

at 6+ (+ d >=

	Camlin Page Date 1 1
	a.lo + c.d
5,	pat qb+rc+bd>z
V	
	- P+4 D>X (1)
	7+8 > X O P+9 < X B P+8 < Y B
10	1+8 < 7 9 9,+9< X 6
	$\rho < \chi$
	タ くて パーンド カンド
	hcz Web Mark
	8 < 2
15	Adding (3) and (9)
	p+q+9+8 < 22
	Ptq Tht D
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20	
	Similarly we can prove for No sol 108.
	Pat & b+ 9C+ 8 d < 2
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	Cone 1 1
	Book and the said of the
	Boolean variables can take only two values O.I.
_	- V - n - > L'
	$-k=0 \Rightarrow k' j k=1 \Rightarrow k+1$
5	
	101 > 011; 011011 >010100 For α > P, Condition ⇒ q=1 ond p=0 ⇒ a.p':
	tog a > Condition = a=1 and p=0 = a.p.
	- For a==P, wondition => (a=1 and P=1) or (a= band P=0)
	\Rightarrow ap + a'p' \wedge \wedge \wedge
10	
_	ale >Pq => 11>10; 11>00; 11>01;
	10>01;10>00
	01>00;
	<i>,</i>
15	(a.b.(PP) + a.b'.P' + ab Pg'
	\Rightarrow $a p + aba + aba = $
	$\Rightarrow a p' + abq' + a'bl'q'$ $\Rightarrow a p' + bq' (a + a'l')$
) W (W . W .)
	$\Rightarrow 2^{nd} \wedge pprooch - (a > p) OR (a == p and (b > q))$
20	John Committee (1)
	(n=1, P=D)OR((n=1; P=1; b=1, q=0)OR
	(a= ; l=0) OR((a= ; l=1; b=1, q=0) OR (a=0; l=0; b=1, q=0)
	(d-0) 1 0) 0 7 4 1)
	=> ap + (ap+a'p'). bg'
25	= 1. (a) 1. (a)
	$a > = P \Rightarrow (a < P)' \Rightarrow (a'.P)' \Rightarrow a + P'$
_	
30	obe> Pgh => (a>P) OR (a = P AND be> gr)
5	OMEP ROOFS
*	K+KU=> KEUTE (K+K). (K+U) = K+U
*	K+K7 => K(1+7) => K

Camlin Page $* (y+Z)(y+w) = (x+k') \cdot U = U$ * (y+Z)(y+w) = y+(z+w)K 101+ 01 = 1000 mm 1 = 1 011+010=1001