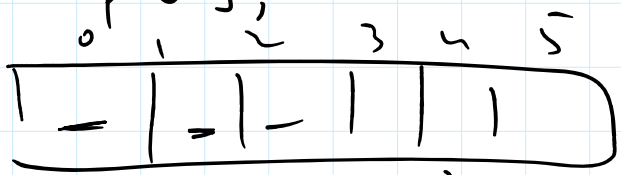
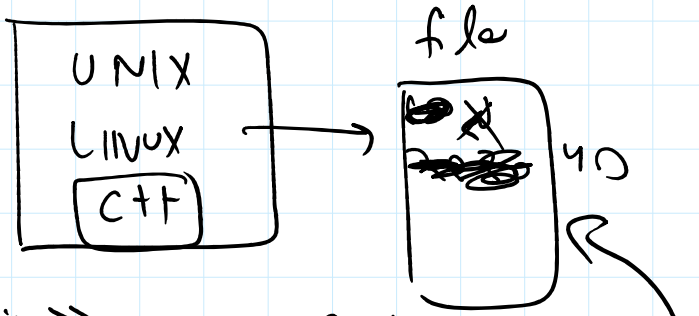
int * ptr[10];



10 (ptr)



cin >> a; → a = 10

cin >> b >> c;

cin >>

ifstream fin ("cat.txt");

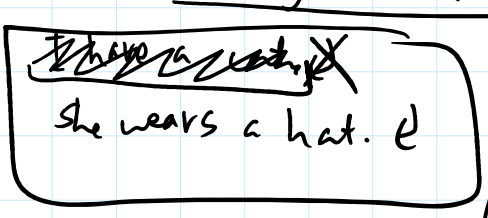
fin >> a >> b;

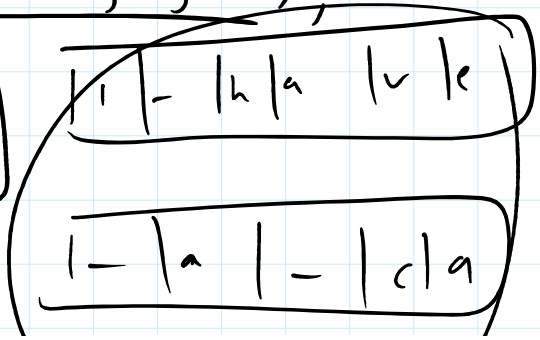
getline

CodeBlocks

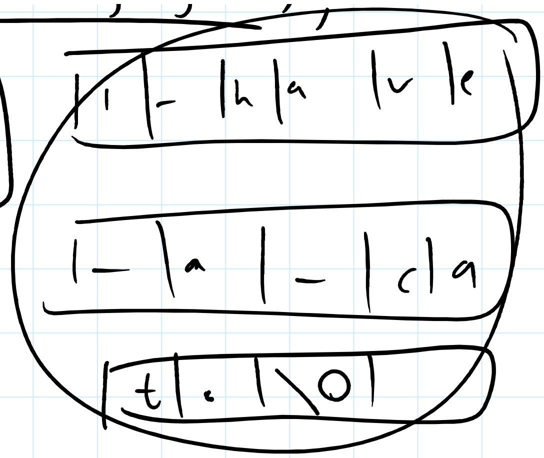
Cat wears a hat.

cin.getline(arr, 8, '\n');



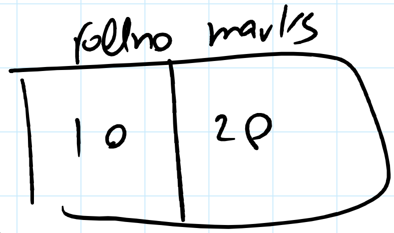


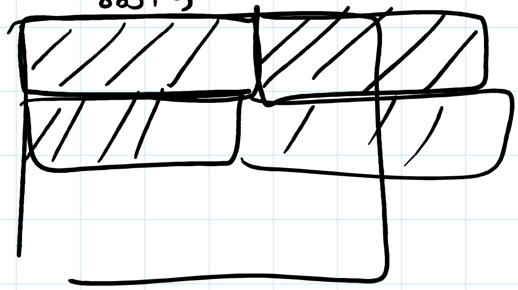
She wears a hat.



```
class stud {
 public:
   int rollno;
   int marks;

}
```





Boolean Algebra + * / ∘ _

$x \rightarrow 0 \quad 1$

① $x+y = x \text{ or } y$ $x \cdot y = x \text{ and } y$

x	y	$x+y$	
0	0	0	0
0	1	1	0
1	0	1	0
1	1	1	1

$x \text{ or } y = 0$ when both are zero

$x \cdot y = 1$ when both are True

② $x \cdot x = x$ (Idempotent law)

(a) $x \cdot x = x$ (Idempotent law)

(1) $X + X = X$

(2) $a \cdot (b+c) = (a \cdot b + a \cdot c)$

$a + (b \cdot c) = (a+b) \cdot (a+c)$ } Dist. law

(3) $a + (b + c) = (a + b) + c$

// ~~bottom-up~~ Associative

(4) $1 + X = T(2)$ | $0 + X = X$

$1 \cdot X = X$ | $0 \cdot X = 0$ } Identity law

(5) Demorgan law

$a + b \cdot c =$

$\bar{a}$	b	c	$\bar{b} \cdot c$	$a + b \cdot c$	A: $a+b$	B: $a+c$	$A \cdot B$
0	0	0	0	0	0	0	0
0	0	1	0	0	0	1	0
0	1	0	0	0	1	0	0
0	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1
1	0	1	0	1	1	1	1
1	1	0	0	1	1	1	1
1	1	1	1	1	1	1	1

Hence verified

verified

De Morgan Law

$X + Y = Ans$

$\overline{Ans} = ?$ $\quad \overline{X+Y} = \overline{X} \cdot \overline{Y}$

$\overline{X \cdot Y} = \overline{X} + \overline{Y}$

Break the bar & change the sign

$\overline{X \cdot Y} = \overline{X} + \overline{Y}$

$\overline{X+Y+C} = \overline{X+Y} \cdot \overline{C}$

$= \overline{X} \cdot \overline{Y} \cdot \overline{C}$

$\overline{\overline{X+Y+C}} = \overline{(\overline{X} \cdot \overline{Y})(\overline{C})}$

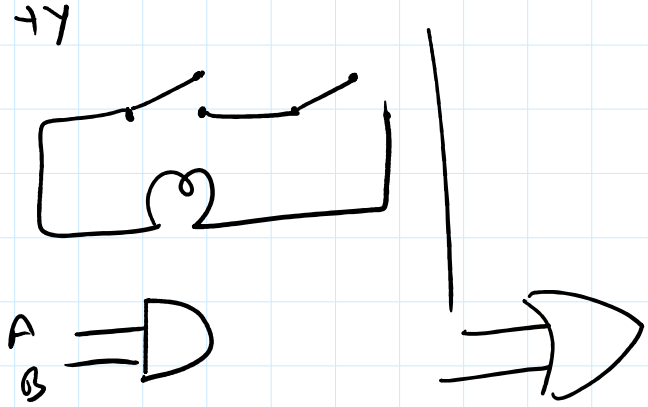
$= \overline{\overline{X} \cdot \overline{Y}} + \overline{\overline{C}}$

$= X \cdot Y + C$

$= \overline{\overline{X}} + \overline{\overline{Y}}$

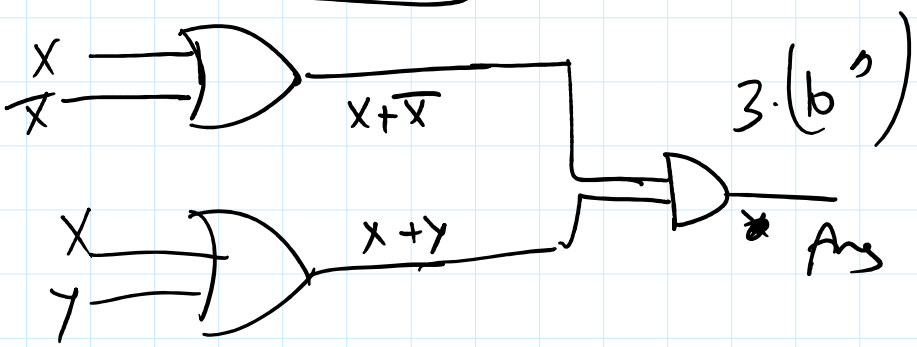
$= X + Y + C$

$X + Y$



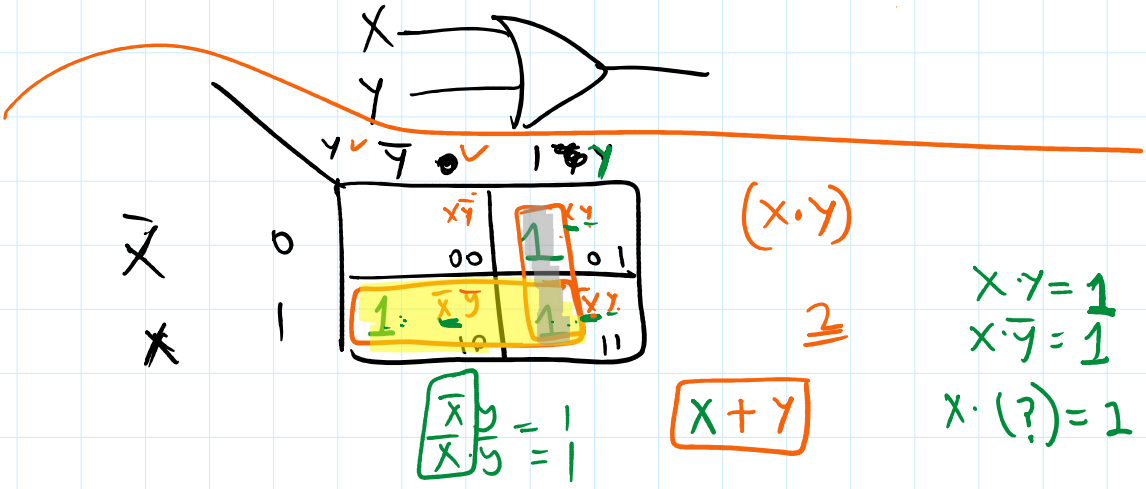
$A + B + C$

$(X + \overline{X}) \cdot (X + Y) = Ans$



Minimised

$(X+\bar{X})\cdot(X+Y) = X+Y$



$XY + X(?) + \bar{X}\cdot Y$

$XY + X(Y+\bar{Y}) + \bar{X}\cdot Y$

$X\cdot X$

$X\cdot 1 = X$

$XY + X\bar{Y} + \bar{X}\cdot Y$ Sum of Product (SOP form)

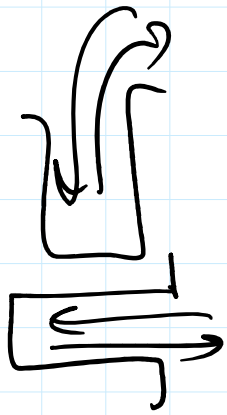
$2 + (2\cdot 3) =$ Operands, Operator: 2 2 3 * + postfix

2 6 +

8

$X - (Y + Z) / U * V \rightarrow$ postfix

Never push operand into stack



Curchar	Exp	Res
X		X
-	-	
(	-(	
Y		XY
+	-(+	
Z		XYZ
)	-	XYZ+
/	-/	XYZ+
U	-/	XYZ+U
*	-*	XYZ+U/
V	"	XYZ+U/V
	-*	XYZ+U/V*-

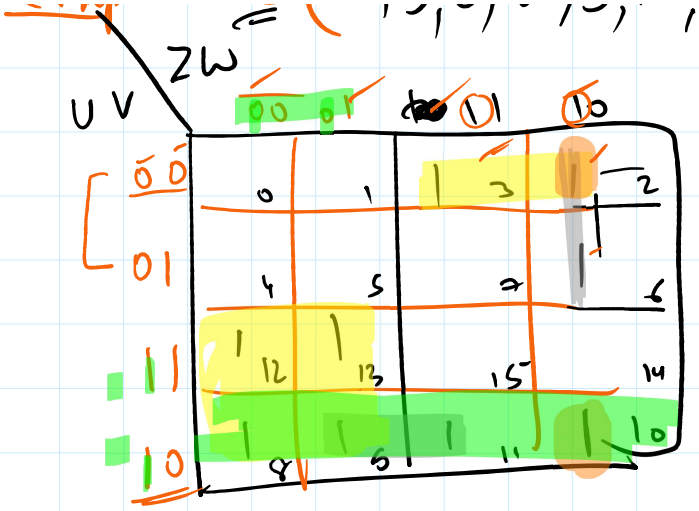
$X \quad (Y+Z)/U \quad V \quad *$

$X + (Y+Z/U) * V +$

Cur	Stack	Res
XYZ	XYZ	
+	X(Y+Z)	

Kmap $\Sigma(2,3,6,8,9,10,11,12,13)$

ZW



0000 = 0

0010 = 2

$Q1 = U\bar{Z}$ $\quad P1 = \bar{U}\bar{V}Z$

$Q2 = U\bar{V}$ $\quad P2 = \bar{U}Z\bar{W}$

$F(U,V,W,Z) = U\bar{Z} + U\bar{V} + \bar{U}\bar{V}Z + \bar{U}Z\bar{W}$

while (cin){

read then write

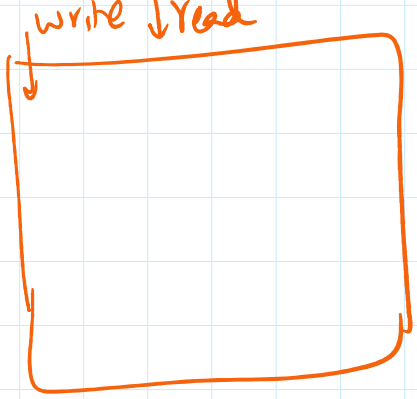
repeat

}

1 10

→ end of input

Ctrl + D



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deepakaggarwal.me

Shubham Discussion

Tuesday, December 19, 2017 11:19 PM