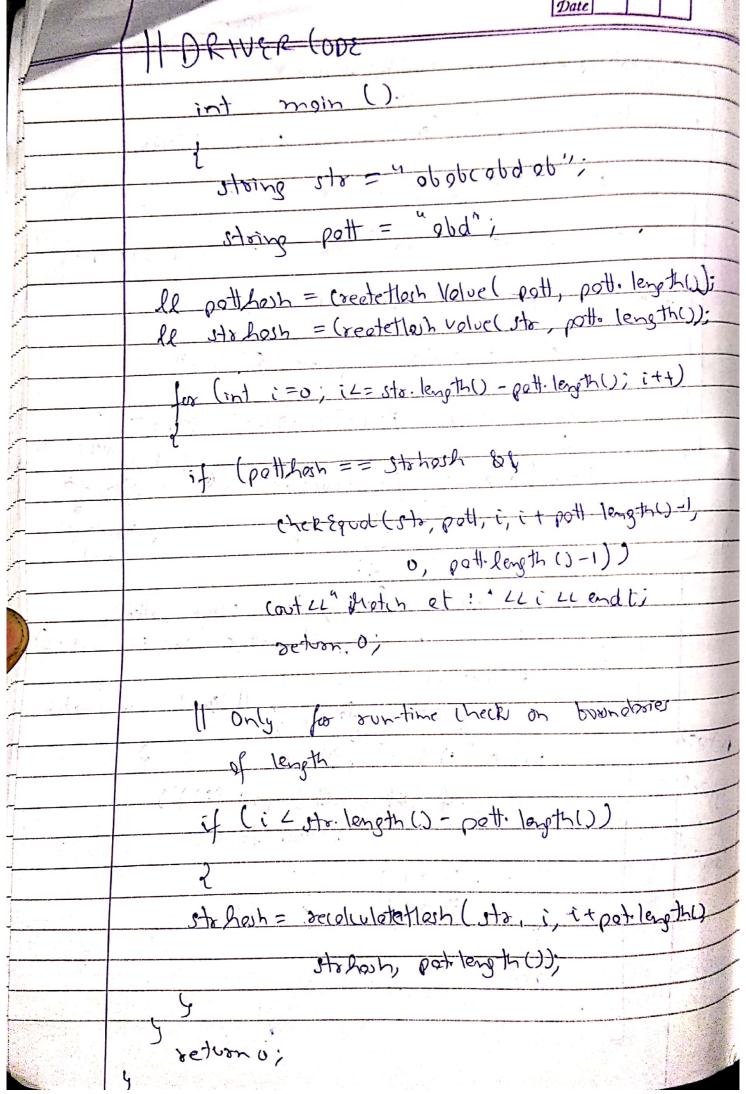


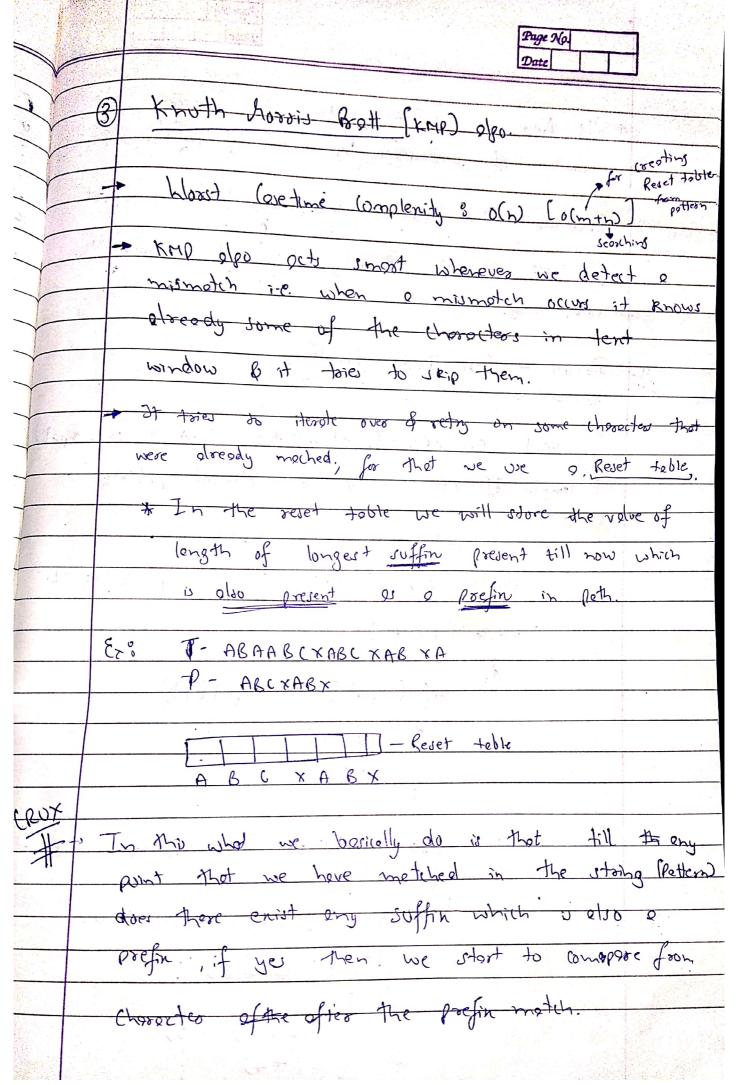
	gar constant the material processing and the constant of the c	0.70	
<u> </u>	Optimised Noive		
		1 20	
ب ب	In this if the charecter	os ore diffin	
	the pottern to Jessen to	ien instead of	
	Hereting 1 by 1 we co	n directly jump	
	"M' (length of pottern)	times.	
	1/80:	۶۲:	
	P = Pottern	T= ABCE ABCO ABCEABO	
2.5	7 = Tent	P = ABCD	
	M = length (p)	M=4	
	N = length (T)	N = 12	
	[msome n>m]		
(-)	abile (i = N-M)		
	for int 3?		
	for (()] = 0)	J ZM; J++)	
1	-if(7(i+3)!=e(7))		
8	lseok;		
	(out 4 "pottern of inden!" 2(i crend);		
	else if (3 = =0)		
	また じ= じもじ		
	1 Juno by J		
	else (i = i + J; S 11 Jump by)		
	5	encore and another section	
*	* Complenity -> Worst lae: some.		

* * * *	sling hash a Gives you the ability to colculate the hash value without rehashing whole Page No. Tx: hash(1234) = hash(123 Date
3	Robin Koop Algo. 6 It is better than Noive
	as it frost reliculates the
	hoshe value of the solutions of length 'th' (length of
	pottern) & only if it notine then we
17 .	Columbia (omposes the stoing.
	Time - Complexity
	a) Aug. (se: o(n+m)
	(6) Worst lose & O(nm) & When harh value
	L. P = AAA motcher.
	LO 7 = AAAAAAA
	# Bosed on solling-has technique
	Ly stong = about about
	we can fortly & efficiently colculate hash

	Page No. Date
	Ex: String = abcd. (Tent)
	Pottern = obid (pottern)
	so we need to create all powible storing.
	of length 3 [length of pottern) &
	Colculate There hash value.
	# define Il long long int
20°	Il create Mark Value (storing str, int n)
(m)	for (int i=0; i < n (i++)
Complexit	result += (PR) sto (i) + (PR) pow(prime, i);
. A.	11 baine 40: 200:3'
P.D.	Il Rolling hash lade down.
	Il secolculate tech (stoing sto, intold Index, int new Index,
	(2) lloldheh, int potlength)
(·)	Il rewhorh = old oldhorn - oto [old]nolex]:
Compleni	rewherh = rewhorn paine;
	newheih += (le) (sto InewInden) * (le) (powl)
	Le gréduin newhati

	Page No.
	Date
1	In solling how we simply hope
-	
0	Example: patt length = 3, string = 23456
L	3 - 3 - 3 - 3 - 3 - 5 - 5 - 5 - 5 - 5 -
1.	hah value for first window 2741 = 234.
g	Jis 12 134.
	value of ment window 345 = (234-2×100) × 10+5
#:	(23 7 - 2 x 100) x 10 + 3
5	The elso we have used worke or.
h	
	stong = abcd, prime = 3., length = 3
X	
	hosh (ebc) = 97+5°+98+5'+99+52
A	A 10 T 71 1 (O -
2	Sein (b(d) = Bhoth (ebc) - 97+10 + 100)+5
A 1	
0	Syprime patterntength.
7	
	(bool check Equal (string tent, stoing pettern,
	int sl, intel ant s2 inte2)
5	if (e1-s1!= e2-s2) length mir-motch
-	seturn folie;
Actual	white (\$1 <=e1 = &8 82 <=e2) 2
Hong	
	if (Stent (31) ! patt (52))
- 200	setion fabe;
Camparison	
	. 52 ++;
	7
	return true;
	1 rue,
	rangan kalangan kalangan bangan b





	* It helps us do no reduce the mototal
	number of companions. by considering possob-patterns
MOTES	(realing the Reset tobie is the map point
	complexity.
	complenity.
#	HIGO - Reset Table (reation)
	Void Create Reset Table (int * 0xx, int M, char * pot)
	int i=t, J=0; Initialise
<u> </u>	orr [0] = 0; Il Alweys, bows nothing before it
	while (iZM)
	1 if (pot (i) = = pot (J))
	iden en 2 (i) = ++j;
	it+;
	y
	else I When the charecters don't make
20	11 When I is still epool to O.
	if (J = = 0)
	(0 = [i] = 0;
	j itti