CSC 226 Assignment 4 Xiaoqing Z

n = skulland bones y = lullaby babies klullandbone ucs [, ] 0+0+0+0 04040 10+0+01 104040 1

the longest common subsequence of the two strongs is: ullabes

1) Greate a character array to store the les string lost

a start from the right most bottom corner and one by one check and store character in ICS[]

3 If current character in XII and III are same, then current character is part of LCS

@ If not same, then find the larger of [[i-1][i]] and L[i][i-1] and go in the direction of larger value.

1 priont les [].

3. @ ABRACADABRA = pattern Z = FA, B, C, D, R]

		A	В	R	A	C	A	D	A	BI	R	A	right [c]
0	man -	0		2	3	4	5	1	7	8	9	10	
A	-	0		Spirite Charles	3		5		7			10	10
В	-1									8			8
(	Construction of the		,			4	1						4
D	-1			1				16	1				6
R				21							9		9

```
4. import jana. util. *;
class Blank ?
              public static soid main (Scripe arg SED) {
                                                scanner (Sustem, in):
                       System, out, triatin ("onter string" and volue for M
                       txt = s nextline ();
                        M = S. nextantill =
                       int length = txt. length();
                        int i=0;
                        while ti < length)
                            if (tothe chitrAttle) == ") {
                                    while (1 = length) {
Analysis Runing
                                         if (tit. charAt(j)==''){
 # of iteration > 1.
 in its On
                                    ef (j-i>= M) {
                                         system, out. Front In (strong
                          \hat{t}=\hat{j};

\hat{t}=\hat{j};
                     if (i = = 1) {
                           System. out. frontln ("strong not found and length = " + 1);
```

5. T= text B = Pattern a = domain of letters of characters

a = prome number

k = kth character of Pottern n=T. length. m= D. length. h=dm-mod.a if(i!= k) p=(dp+p[i])%9 to=(dto+T[i])%9 Sor 5=0 to n-m for j=1 to M

if j!=k && T[stj]!=p[j]

break;

if j==M

print "Pattern occurs with s"

tf s<n-m

+ an -/// tst = (d(ts-T[sti]h) + T(stM+1)) mod q tst = [d(ts-T[stkt] x h) + T[stk]] mod q