Procedure LCS-LENGTH (21,4) Description - X = (21, 22, ... um) df = (7, 42 "yn) are too given sequences. The olgrithm uses too mxn matrices. C Co:m, o:n) and B (o:n, o:n). The matrix B Stores the length of les & matrix B stores symbols are computed in roco order. This procedure return motrix Bac. (1, m. v. 8) ETMT97 201 Sinds Der Dedaration - global integer (0:m, 0:n) char B. (o:m, o:n) dol char 2(1:m), y(1:n) local integer moners. STACK S. (1. 12) Algorithm m + LENGTH (21) n = LENGTH (x) for it o to mide in cui, o) + o // All up o in el column o repeation Heur for it to fon do c(0,1) + 0 and repeat for i to m do
Por j to n do if encis = 4 (i) then,

cci, i) = c(i-1, i-1) +1

Incomplete for :

1) Algorithm

2) Flow Chart

3) Programme Listing

4) Results

5) Comments

```
B(i,v) + k
             els-c
B (i,i) (-1,i)
              else
                  ca(i,i) ← c (i, i-1)
            ( ) B ( ) + ' - '
endif endif
endif
and tepeat and and and
 END-LCS-LENGTH
       stunction or a leding conde
* Non - Recursive , who may and who
 Procedure LCS_PRINTI(B,x,m,n)
    inglobal charib (oin, oin) moloson
       global x (21, 22, 203) ... 21m)
      (integer m,n,is rous
      local integer 1,5
        STACK S(1:K)
                   Algorithm .
       Par i em to 1 by 151 do
           for jet no to I by it do.
 a moderate me quiff BCi, i) (= i'k's, then
                  PUSH (21 (1))
               for it is to the
              else (1,000)
               of it BCisi = it then
              endi?
         non- (lendif ())
```

Remarks

Submitted on

Returned on

repeat

for $i \leftarrow fop \ fo \ 1 \ do$ PRINT (STACK (i))

repeat

END LCS-PRINT1