FELIPE BRAZ

1) bor i=0,1,2 ...m: E(i,0=i; bor j=1,2,..., n:

E(0,5)=1;

bon i=1,2,...,m: bon j=1,2,...,m:

 $E(i,j) = min \{ E(i-1,j) + 1, E(i,j-1) + 1, E(i-1,j-1) + aiff(i,j) \}$ Notern E(m,m)

0	T	11	T	10		10	10	1	T	76
		M	1	16	0.	R	L)	IT	M	0
	0	1	2	3	4	5	6	7	8	9
L	1	1	-1	2	3	4	5	6	7	8.
0	2	2	2	2	2	3	4	S	6	7
G	3	3	3	2	3	3	4	5	6	3
A	9	3	4	3	3.	4	4	5	6	2
R	5	4	4	4	4	3	4	5	6	2
j	6	5	5	S	5	4	3	4	S	6
T	?	6	6	6	6	5	4	3	4	S
M	8	7	7	7	7	6	5	4	3	4
0	9	8	8	8	?	7	6	5	4	3

Llistâncio = 3

## Felipe Braz /22.1.4030

```
global MANTEM 0
global TROCA 1
global INSERE 2
global APAGA 3
function imprimeOperacoes(x[1..n], y[1..m], E[0..n,0..m])
   i = n
   j = m
   aux = max(n, m)
   operacoes = []*t
   while ((i != 0) and (j != 0)):
       if (E[i][j] == E[i-1][j-1] + diff(x[i-1], y[j-1])):
            if (x[i-1] != y[j-1]):
               operacoes[aux] = TROCA
               operacoes[aux] = MANTEM
            i = i - 1
            j = j - 1
        elif (E[i][j] == E[i][j-1] + 1):
            j = j - 1
            operacoes[aux] = INSERE
        elif (E[i][j] == E[i-1][j] + 1):
           i = i - 1
           operacoes[aux] = APAGA
        aux = aux - 1
   while (i != 0):
       operacoes[aux] = APAGA
        aux = aux - 1
       i = i - 1
   while (j != 0):
       operacoes[aux] = INSERE
        aux = aux - 1
        j = j - 1
   i = 1
   j = 1
   for k in range(1, max(n, m)):
        if (operacoes[k] == MANTEM):
           print("Mantém o caractere x[i]")
            i = i + 1
            j = j + 1
        elif (operacoes[k] == TROCA):
           print("Troca o caractere x[i] pelo y[j]")
            i = i + 1
            j = j + 1
        elif (operacoes[k] == INSERE):
           print("Insere o caractere y[j]")
            j = j + 1
        elif (operacoes[k] == APAGA):
           print("Remove o caractere x[i]")
            i = i + 1
```