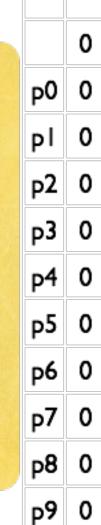
```
function LCSLength (X[1..m],Y[1..n]) {
 C = array (0..m, 0..n)
  for row=0..m
   C[row,0] = 0;
  for col =0..n
   C[0,col] = 0
  for row=1..m
   for col = 1..n
    if X[row] = Y[col]
      C[row,col] = C[row-1,col-1] + 1
     else
      C[row,col] = max(C[row,col-1],C[row-1,col])
  return C[row, col]
```

```
function backTrace (C[0..m, 0..n], X[1..m], Y[1..n], row,
col) {
  if row=0 or col=0
    return ""
                                                              p^2
  else if X[row] = Y[col]
    return backTrace(C, X,Y, row-1, col-1) +X[row]
                                                              p.
  else
       if C[row, col-1] > C[row-1, col]
                                                              P
         return backTrace(C, X, Y, row, col-1)
                                                             b<sub>7</sub>
       else
         return backTrace(C, X, Y, row-1, col)
                                                              Pθ
                                                              P/
                                                              Pξ
```



|   | 0 | 0 | 0 |
|---|---|---|---|
| 0 | 0 | 1 | I |
| I | 0 | I | I |
| 2 | 0 | ı | I |
| 3 | 0 | ı | I |
| 4 | 0 | I | I |
| 5 | 0 | I | I |
| 6 | 0 | ı | I |
| 7 | 0 | I | I |
| 8 | 0 | I | I |
| 9 | 0 | ı | I |

| I | 2 |
|---|---|
|   | 2 |
| I | 2 |
|   | 2 |
| I | 2 |
|   | 2 |
| I | 2 |
| I | 2 |
|   | _ |



c0 c1 c2 c3 c4 c5 c6 c7 c8 c9 c10 c11

0

6

6 7 7

6 6

0 0