

```
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3) T(n) = T(n-1)+ T(n-2) 7(6)=1 T(1)=1
      T(h) > ZT(h-2)
 b.) for C[0,0]=0, C[1,1]=1 for in>1. Ch, k]= C[n-1, **i-1] + C[n-1,k]
     run fime: O(n)
     if we use memo iration, having a lookup table to
     compute previous find previously calculated values
  significantly improves compute time.
                           becouse there is no overlapping.
@ Input: array X[], array char Y[]
                                (s-m) = T(n-m) = T(m-z)
     faint i = Krs Size of X[] (50) (50) (50) [10)
       inti= size of YCJ (10+(H-m)T+(E-m)T
      intersplaceholder form intik = 0 // placeholder for largest
  for m=0 -> i { int temps 15]
             if (m=0 or n=0) { (3-0) T'S = [n]
                  temp are [4][n] = 0
         else is (x[mm] = Y[n-1]) may
             1. temp [m][n] = temp[m-1][n-1]+1-10-10x
               k= largest of k and temp[m][n]
             else {
               temp[m][n]=0
       Output K
```

```
S &muer Array[0][0]=0

for(6=1 → n)
{
              Array[i][0]= Array[i-1,0] (1-pi)
Sor(j=1->n)
                for (k=1 ton)
                  Array[j][k] = Array[i-][k](1-p;) + Array[j-1][k-1]p;
```