- 1). is Entwining (x, y, 2) = is Entwining (x-substring (0, x.length ()-1), y.substring (0, y.length ()-1), <math>y. Substring (x, y) = is Entwining (x, y) = is Entwining
- 2). The manay 2 will use is a 3-dimensional array (X. bough() x y. longth() X 2. longth()).
- 3). Mean = $(([0] \times X.bergth()) \times y.bergth()) \times Q.bergth()$. is Entrining (x,y,z).

if mom [x][y][2]!=0 return mom [x][y][2]

 $\forall x. longth == 1$ and (x==y or x==z)return True

in X. substring (0, X. longth()-1) and 2 is in X. substring (0, y. longth()-1) is

is Enturing (X. substring (0, X. longth()-1), y. substring (0, y. longth()-1), 2)

if X[x.longth(1] is in 2 and y is in x. substring(0, x.longth()-1) and Z. substring(0, x.longth()-1) is in X. substring(0, x.longth()-1), is in X. substring(0, x.longth()-1), is in X. substring(0, x.longth()-1), is in X. substring(0, x.longth()-1).

Once the subproblems are solved, the recursion vill pass the veturned result to the first function call to obtain the result.

4). The running time is D(x.longth() x y.longth() x & longth())