

Edit Distance Computation

```
EditDistance(X,Y):  
  For i = 1,...,m: A[i,0] = i*gap  
  For j = 1,...,n: A[0,j] = j*gap  
  
  For i = 1,...,m:  
    For j = 1,...,n:  
      A[i,j] = min(  
        cost(a[i],b[j]) + A[i-1,j-1],  
        gap + A[i-1,j],  
        gap + A[i,j-1]  
      )  
    EndFor  
  EndFor  
  Return A[m,n]
```