Analysis Assignment 2 Hassan ElMasry 52-2481 13000828

Code Explanation:

	I created a new static class called res that stores 3 parameters the 2 strings after the alignment and the alignment score which is a double
	There is a threshold used the returns 0.0 if the score is less than 1 to the power of -10 as the double has a very high accuracy
	First we initialize the temp array using the values that we already have from the inputted scoring matrix
	Dynamic programming is used to calculate the scores and places it in the temp array using the search or match or delete variables
	We then traceback the temp array and fill the strings that contain the alignment result to be able to output it
	The score is taken from the last cell in the temp array
Time Complexity:	
	Two loops for initializing the first row and first column. O(m + n)
	Two nested loops for the dynamic programing section which fills the temp array. O(m*n)
	Traceback loop will have complexity of O(Max(m,n))
	Where m and n are the length of strings x and v respectively