Given 2 strings with similar lettering, we must delete the extra letters within each string until both contain the same characters in the same order. Once the characters are deleted, their ASCII value(s) will be summed and returned.

A 2d array will be created with the row being the same length as s1+1 and the column same length as s2+1.

There will be 2 for loops, one to loop through each string checking the ASCII values and adding them up.

A nested for-loop will be created to check both the character’s ASCII to see if they are the same at that current position. Once executed the program will return the expected sum

public int minimumDeleteSum(String s1, String s2){

int[][] dp = new int[s1.length();+1][s2.length();+1];

for(int i = 1; i <= s1.length(); i++){

dp[i][0] = dp[i-1][0] + (int)(s1.charAt(i-1));

}

for(int i = 1; i <= s2.length();; i++){

dp[0][i] = dp[0][i-1] + (int)(s2.charAt(i-1));

}

for(int i = 1; i <= s1.length();; i++){

for(int j = 1; j <= s2.length();; j++){

if(s1.charAt(i-1) == s2.charAt(j-1)){

dp[i][j] = dp[i-1][j-1];

}

else{

dp[i][j] = Math.min(dp[i-1][j] + (int)s1.charAt(i-1), dp[i][j-1] + (int)s2.charAt(j-1));

}

}

}

return dp[s1.length();][s2.length();];

}