Edit Distance Worksheet

The purpose of this exercise is to get you comfortable with the notation used in the edit distance problem and with the recursive formulation.

Given source string s = kasparov and target string t = karpov. Note that the length of s (denoted |s|) is 8 and |t| = 6.

1. What does the function call string_compare(s. t. 2, 2) return? (Hint: you should be able to answer this by visually inspecting the two strings.)



2. Suppose that function string_compare returns the following values for three different combinations of *i* and *j*:

i	j	output		
8	5	-4		
7	6	-1		
7	5	3		

Use this to determine the output of string_compare (s, t, 8, 6).

$$S[\Lambda] = t[Y] \Rightarrow String-Compare(S,t,\Lambda,Y) = String-Compare(S,t,V,D)=T$$

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