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.)

"ka" = "ka", so the function returns 0.

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	4
7	5	3

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

Substitute s_3 to be an "r" and delete s_5 and s_6 . returns 3