s = a $\underline{a}$ $\underline{b}$ $\underline{c}$ $\underline{c_2}$ t = abc

$a_1 b c_1$ $a_1 b c_2$

$a_2 b c_1$ $a_2 b c_2$ $\Rightarrow$ 4

$O(2^n)$
$O(n^2)$

$a_1 b c_1$
$a_1 b c_2$
$a_2 b c_1$
$a_2 b c_2$

recur(s, t, i, j) {
  if(j == t.length) return 1
  if(i == s.length) return 0

  take = s[i] == t[j] ? recur(s, t, i+1, j+1) : 0;

  notTake = recur(s, t, i+1, j)
  return take + notTake;
}