**Recursively remove all adjacent duplicates**

Given a string s, remove all its adjacent duplicate characters recursively.

**Example 1:**

**Input:**

S = "geeksforgeek"

**Output:** "gksforgk"

**Explanation:**

g(ee)ksforg(ee)k -> gksforgk

**Example 2:**

**Input:**

S = "abccbccba"

**Output:** ""

**Explanation:**

ab(cc)b(cc)ba->abbba->a(bbb)a->aa->(aa)->""(empty string)

**Your Task:**  
You don't need to read input or print anything. Your task is to complete the function **rremove()** which takes the string S as input parameter and returns the resultant string.  
**Note:** For some test cases, the resultant string would be an **empty** string. For that case, the function should return the empty string only.

**Expected Time Complexity:** O(|S|)  
**Expected Auxiliary Space:** O(|S|)