Given a string **S** of characters, a *duplicate removal* consists of choosing two adjacent and equal letters, and removing them.

We repeatedly make duplicate removals on **S** until we no longer can.

Return the final string after all such duplicate removals have been made.

Included libraries: vector, list, stack

**For example:**

| **Test** | **Result** |
| --- | --- |
| cout << removeDuplicates("abbaca"); | ca |
| cout << removeDuplicates("aab"); | b |