821. Shortest Distance to a Character

Given a string s and a character c, return an array of integers representing the shortest distance from the character c in the string.

```
class Solution {
public int[] shortestToChar(String S, char C) {
    // two pass,left to right and right to left
    int[] res = new int[S.length()];
    int n = S.length();
    int pos = -n;
    // 第一次扫描计算当前位置字母与前一个目标字母之间的距离
    for (int i = 0; i < n; i++) {
       if (S.charAt(i) == C)
           pos = i;
       res[i] = i - pos;
    }
    // 后一次扫描计算当前位置字母与后一个字母之间的距离
    for (int i = n-1; i >= 0; i--) {
        if (S.charAt(i) == C)
           pos = i;
        res[i] = Math.min(res[i], Math.abs(i-pos));
    }
    return res;
```