

76. Minimum Window Substring

题目描述: <https://leetcode.com/problems/minimum-window-substring/>

给定两个串s, t 在s中找到最小的包括t的window

例如:

```
S = "ADOBECODEBANC"  
T = "ABC"  
Minimum window is "BANC"
```

解题思路:

先把t按照哈希表存好。从s每个元素开始遍历, 用哈希表存着, 一旦发现ok了, 就往后移动左窗口, 直到不能移动为止, 然后从下个元素遍历。

代码:

```

class Solution {
public:
    string minWindow(string s, string t) {
        int len1 = s.size(), len2 = t.size();
        int w = INT_MAX, count = 0;
        string res;
        int m1[130] = {0}, m2[130] = {0};
        for(char c: t) {
            m1[c]++;
        }
        for(int i = 0, j = 0; j < len1; j++) {
            char c = s[j];
            if(m1[c] != 0) {
                m2[c]++;
                if(m2[c] <= m1[c]) {
                    count++;
                }
            }
            if(count >= len2) {
                while(m1[s[i]] == 0 || m2[s[i]] > m1[s[i]]) {
                    m2[s[i]]--;
                    i++;
                }
                if(j-i+1 < w) {
                    w = j-i+1;
                    res = s.substr(i, w);
                }
            }
        }
        return res;
    }
};

```