424. Longest Repeating Character Replacement (Medium)

You are given a string s consisting of only uppercase english characters and an integer k. You can choose up to k characters of the string and replace them with any other uppercase English character.

After performing at most k replacements, return the length of the longest substring which contains only one distinct character.

Example 1:

```
Input: s = "XYYX", k = 2

Output: 4
```

Explanation: Either replace the 'X's with 'Y's, or replace the 'Y's with 'X's.

Example 2:

```
Input: s = "AAABABB", k = 1

Output: 5
```

Constraints:

- 1 <= s.length <= 1000
- 0 <= k <= s.length

▼ 思路:

作法二:hashmap 儲存記錄過字母,迭代更新最大window

作法一

```
class Solution {
public:
  int characterReplacement(string s, int k) {
     int ans=0;
     unordered_set<char> check(s.begin(),s.end());
     for(char c: check){
       int I=0, count=0;
       for(int r=0;r<s.size();r++){
          if(s[r] == c){
            count++;
          }
         while(r-l+1 - count > k){
            if(s[I] == c){
               count--;
            }
            l++;
          }
         ans = (ans > r-l+1)? ans : r-l+1;
       }
     return ans;
  }
};
```

作法二

```
class Solution {
public:
    int characterReplacement(string s, int k) {
        int ans=0,l=0,maxw=0;
        unordered_map<char,int> check;
        for(int r=0;r<s.size();r++){
            check[s[r]]++;
            maxw = (maxw > check[s[r]]) ? maxw :check[s[r]]; //max windows
```