1100. Find K-Length Substrings With No Repeated Characters <Medium>

/\* sliding window \*/

int numKLenSubstrNoRepeats(string S, int K) {

if(S.size() < K) return 0;

int res = 0;

int repeat = 0;

vector<int> cnt(26,0);

int i = 0;

for(; i < K-1; i++)

{

cnt[S[i]-'a']++;

if(cnt[S[i]-'a'] == 2) repeat++;

}

int j = 0;

for(; i < S.size(); i++)

{

cnt[S[i]-'a']++;

if(cnt[S[i]-'a'] == 2) repeat++;

if(repeat == 0) res++;

cnt[S[j]-'a']--;

if(cnt[S[j]-'a'] == 1)repeat--;

j++;

}

return res;

}