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All DNA is composed of a series of nucleotides abbreviated as A, C, G, and T, for example: "ACGAATTCCG". When studying DNA, it is sometimes useful to identify repeated sequences within the DNA.

Write a function to find all the 10-letter-long sequences (substrings) that occur more than once in a DNA molecule.

For example,

Given s = "AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT",

Return:

["AAAAACCCCC", "CCCCCAAAAA"].

map来存

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class Solution {

public:

vector<string> findRepeatedDnaSequences(string s)

{

vector<string> ret;

if(s.size()<10)

return ret;

map<string,int> pp;

for(int i=0;i<=s.size()-10;i++)

pp[s.substr(i,10)]++;

for(map<string,int>::iterator it=pp.begin();it!=pp.end();it++)

{

if(it->second>=2)

ret.push\_back(it->first);

}

return ret;

}

};