#include<bits/stdc++.h>

using namespace std;

int solve(string s){

unordered\_map<char,int> mp1, mp2;

for(auto it: s){

mp1[it]++;

}

int mtc = 0, rtc = mp1.size();

string ans = "";

int i=-1,j=-1;

while(true){

bool f1 = false, f2=false;

int n = s.size();

while(i<n-1 && mtc<rtc){

i++;

char ch = s[i];

mp2[ch]++;

if(mp2[ch]==1){

mtc++;

}

f1 = true;

}

while(j<i && mtc==rtc){

string pans = s.substr(j+1,i-j);

if(ans.size()==0 || pans.size()<ans.size()){

ans = pans;

}

j++;

char ch = s[j];

if(mp2[ch]==1){

mp2.erase(ch);

}

else{

mp2[ch]--;

}

if(mp2.find(ch)==mp2.end()){

mtc--;

}

f2 = true;

}

if(f1==false && f2==false){

break;

}

}

int res = ans.size();

return res;

}

int main(){

string s;

cin>>s;

cout<<solve(s);

}