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#include<bits/stdc++.h>
using namespace std;
const char nl = '\n';
    typedef long long ll;
    typedef long double ld;
using i64 = unsigned long long;
using i32 = unsigned;
using i128 = unsigned __int128;
    #define all(x) (x).begin(), (x).end()
void solve(){
    string s;
    cin >> s;
    map<char,int> mp;
    for (auto e : s){
        mp[e]++;
    }
    string ans;
    vector<int> c(26);
    for(auto e : s )
    {

        if(ans.empty()){
            ans.push_back(e);
            c[e - 'a'] = 1;
            mp[e]--;
            continue;
        }

        while( !ans.empty() &&ans.back() < e && !c[e - 'a'] && mp[ans.back()]){
            char k = ans.back();

            c[k - 'a'] = 0;
            ans.pop_back();

        }

        if(!c[e - 'a']){
            ans.push_back(e);
            c[e - 'a'] = 1;
        }
        mp[e]--;
    }
    cout << ans << nl;
}

int main(){
    ios::sync_with_stdio(0),cin.tie(0),cout.tie(0);
    int t = 1;
    // cin >> t;
    while(t--){
        solve();
    }
    return 0;
}

```

}