#include<iostream>

#include<stack>

using namespace std;

void main() {

int i,invalid = 0;

char a[50];

char \*s=a;

stack<char> st;

st.empty();

cin>>a;

while(\*s!='\0') {

if(\*s == '['|| \*s == '(') st.push(\*s);

else {

if(\*s == ']') {

if(st.top() != '[') {

invalid = 1;

break;

}

else st.pop();

}

if(\*s == ')') {

if(st.top()!='(') {

invalid = 1;

break;

}

else st.pop();

}

}

s++;

}

if(!st.empty()) invalid = 1;

if(invalid) cout<<"invalid!"<<endl;

else cout<<"ok!"<<endl;

cin>>i;

}