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#include<bits/stdc++.h>

using namespace std;

int i=0,f=0,l;

string s;

void X(){
    if(s[i]=='b'){
        i++;
        f = 1;
    }
    else{
        f = 0;
        return;
    }
    if(s[i]=='b'){
        i++;
        f = 1;
        if(i!=l-1) X();
    }
    else if(s[i]=='c'){
        i++;
        f = 1;
        if(i!=l-1) X();
    }
    else{
        f = 0;
        return;
    }
}

void A(){
    if(s[i]=='a'){
        i++;
        f = 1;
    }
}
```

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else return;
if(i!=l-1){
    X();
}
if(i==l-1 && f){
    if(s[i]=='d'){
        f = 1;
        i++;
        return;
    }
    else{
        f = 0;
        return;
    }
}
}

int main(){
    freopen("i2.txt","r",stdin);
    freopen("o2.txt","w",stdout);
    while(getline(cin,s)){

        f = 0;
        i = 0;
        l = s.size();
        A();

        if(l==i && f){
            cout<<"valid\n";
        }
        else{
            aaaaa
            cout<<"invalid\n";
        }
    }
}

```