```
1 #include<bits/stdc++.h>
2 using namespace std;
3
4 int i=0,f=0,1;
5
6 string s;
7
8 void X(){
9
10
        if(s[i]=='b'){
          i++;
11
           f = 1;
12
13
14
        else{
15
           f = 0;
           return;
16
17
18
        if(s[i]=='b'){
19
           i++;
20
           f = 1;
21
           if(i!=1-1) X();
22
23
24
        else if(s[i]=='c'){
25
           i++;
26
           f = 1;
27
           if(i!=1-1) X();
28
        }
29
        else{
30
           f = 0;
31
           return;
        }
32
33
34
   }
35
36
   void A(){
37
        if(s[i]=='a'){
38
39
           i++;
40
           f = 1;
41
42
        else return;
43
        if(i!=1-1){
44
           X();
45
46
47
        if(i==1-1 && f){
48
49
            if(s[i]=='d'){
50
               f = 1;
51
               i++;
52
               return;
53
            }
54
           else{
               f = 0;
55
56
               return;
57
58
59
60
61
62 int main(){
63
64
        freopen("i2.txt","r",stdin);
65
        freopen("o2.txt","w",stdout);
        while(getline(cin,s)){
66
```

```
67
68
69
    f = 0;
70
71
72
73
            1 = s.size();
74
75
           A();
76
77 if(l==i
78 cout
79 }
80 else{
81 cout
82 }
83
           if(l==i && f){
          cout<<"valid\n";
}</pre>
            cout<<"invalid\n";</pre>
84 }
85
86 }
```