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//encryption - Hackerrank - Week 5 Coding Contest
# Enter your code here. Read input from STDIN. Print output to STDOUT
s=str(input())
encrypt=''
L=[]
for j in s.split():
    s1=''
    for i in range(1,len(j)):
        if (j[i].isalpha() and j[i-1].isalpha()==True) and (j[i]!=j[i-1])==True:
            a=abs(ord(j[i])-ord(j[i-1]))
            s1=s1+j[i-1].lower()+chr(a+96)
        if(j[i].isalpha() and j[i-1].isalpha()==True) and (j[i]==j[i-1])==True:
            s1=s1+j[i-1].lower()+'0'
        if j[i].isdigit() or j[i-1].isdigit()==True:
            s1=s1+j[i-1].lower()
    s1=s1+j[i]
    L.append(s1)
for i in L:
    encrypt=encrypt+i+" "
print(encrypt)
```