str=input()  
l=0  
u=0  
for i in str:  
    if (i.islower()):  
        l=l+1  
    elif (i.isupper()):  
        u=u+1  
    else:  
        print("not an alphabet")  
print("lower",l)  
print("upper",u)

a='daTa Science'  
cnt1=0  
cnt2=0  
for i in a:  
  if(i.islower()):  
    cnt1+=1  
  else:  
    cnt2+=1  
print('Lower Leters is:',cnt1)  
print('upper Leters is:',cnt2)

a = [ 10, 11, 12, 13]

str=input()  
l=0  
u=0  
for i in str:  
    if (i.islower()):  
        l=l+1  
    elif (i.isupper()):  
        u=u+1  
    else:  
        print("not an alphabet")  
print("lower",l)  
print("upper",u)