```python
# Enter your code here. Read input from STDIN. Print output to STDOUT
def returncase(c):
    if c.isupper()==True:
        return 1
    if c.islower()==True:
        return 0
    if c.isalpha()==False:
        return -1
s=str(input())
case_option=int(input())
l1=[]
l=[]
for i in s.split():
    if case_option==0:
        l.append(i[::-1])
    if case_option==1:
        a=''
        for j in range(0,len(i)):
            if returncase(i[j])==0:
                a=a+i[::-1][j].lower()
            if returncase(i[j])==1:
                a=a+i[::-1][j].upper()
            if returncase(i[j])==-1:
                a=a+i[::-1][j]
        l.append(a)
s1=''
for i in l:
    s1=s1+i+" "
print(s1)
```