*# Q1*

print("Q1")

def onehop(l):

    oh=[]

    for i in range(0, len(l)):

        for j in range(0, len(l)):

            if l[i][1]==l[j][0] and l[i][0]!=l[j][1]:

                if [(l[i][0], l[j][1])] not in oh:

                    oh += [(l[i][0], l[j][1])]

    myset=set(oh)

    return(sorted(myset))

print(onehop([(2,3),(1,2)]))

print(onehop([(2,3),(1,2),(3,1),(1,3),(3,2),(2,4),(4,1)]))

print(onehop([(1,2),(3,4),(5,6)]))

*# Q2*

print("Q2")

def valley(x):

    for i in range(0, len(x)):

        if x[i] != x[len(x)-i-1]:

            return False

    for i in range(0, int(len(x)/2)):

        if x[i] <= x[i+1]:

            return False

    return True

print(valley([3,2,1,2,3]))

print(valley([3,3,2,1,2]))

*# Q3*

def maxcount(l):

    maxfreq = 1

    for i in l:

        if maxfreq < l.count(i):

            maxfreq = l.count(i)

    return maxfreq

print(maxcount([1,17,31,17,22,17]))

print(maxcount(["the","higher","you","climb","the","further","you","fall"]))

print(maxcount(["the","higher","you","climb","the","further","you","fall","you","climb","the","further","you","fall"]))

*# Q4*

print("Q4")

def sublist(l1, l2):

    if l1==[]:

        return True

    elif l2==[]:

        return False

    else:

        for i in range(0, len(l2)):

            if l2[i] == l1[0]:

                f = 0

                for j in range(0, len(l1)):

                    if l1[j] != l2[i+j]:

                        f = 1

                        break

                if f==0:

                    break

                if f==0:

                    return True

        else:

            return False

print(sublist([2,2,3],[2,2,3,4,5]))

print(sublist([2,2,4],[2,2,3,4,5]))

print(sublist([2,2,3],[2,2,3,4,5]))

print(sublist([2,2,4],[2,2,3,4,5]))

*# Q5*

print("Q5")

user\_str = input("Enter 2\*n lines")

l1=[]

l2=[]

while user\_str!='':

    l1.append(user\_str)

    user\_str=input()

if len(l1)%2!=0:

    print("Enter 2\*n lines plis?")

else:

    for i in range(0, len(l1), 2):

        l2.append(l1[i])

        l1.remove(l1[i])

    l1.reverse()

    l2.reverse()

    for x,y in zip(l1, l2):

        print(x)

        print(y)

*# Q6*

print("Q6")

for i in range(101):

    if i%3==0 and i%5!=0:

        print('fizz')

    elif i%5==0 and i%3!=0:

        print('buzz')

    elif i%3==0 and i%5==0:

        print('fizzbuzz')

    else:

        print(i)

*# Shorter fizzbuzz: 56 Characters.*

for i in range(101):

    print("Fizz"[i%3\*4:]+"Buzz"[i%5\*4:] or i)