def rev(lis, number): # 通过改变二维数组中的0和1，改变数据方向

for i in range(len(lis)):

if lis[i][0] == number:

if lis[i][1] == 0:

lis[i][1] = 1

else:

lis[i][1] = 0

return lis

def lis\_print(lis):

for x in lis:

print(x[0], end="")

print()

def setlist(lst):

lis = []

for x in lst:

lis.append([x, 0])

return lis

def fun(lis, sort\_lst):

m = -1

for m\_1 in range(len(sort\_lst)):

for x in range(len(lis)):

if sort\_lst[m\_1] == lis[x][0]:

m = x

if lis[m][1] == 0 and m != 0 and lis[m][0] > lis[m - 1][0]:

lis[m], lis[m - 1] = lis[m - 1], lis[m]

lis\_print(lis)

for i in range(0, m\_1):

lis = rev(lis, sort\_lst[i])

fun(lis, sort\_lst)

break

elif lis[m][1] == 1 and m != len(lis) - 1 and lis[m][0] > lis[m + 1][0]:

lis[m], lis[m + 1] = lis[m + 1], lis[m]

lis\_print(lis)

for i in range(0, m\_1):

lis = rev(lis, sort\_lst[i])

fun(lis, sort\_lst)

break

lst = [1, 2, 3, 4]

print(lst)

print()

for i in lst:

print(i, end="")

print()

fun(setlist(lst), sorted(lst, reverse=True))

