**实验报告1.1-129**

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**实验名称**： 习题练习

**实验要求：** 熟悉程序并加以习题练习

**实验题目：习题6.1-6.3**

**算法实现：6.1**

import random

def generatePSW(n:int, chList:list):

psw = []

size = len(chList)

for i in range(n):

k = random.randint(0, size-1)

psw.append( chList[k])

return "".join(psw

ch = []

c = 'A'

while c <= 'Z':

ch.append(c)

c = chr(ord(c) + 1)

c = 'a'

while c <= 'z':

ch.append(c)

c = chr(ord(c) + 1)

c = '1'

while c <= '9':

ch.append(c)

c = chr(ord(c) + 1)

pswlist=[]

for i in range(10):

print("第{0:2} 个随机密码： {1}".format(i+1, generatePSW(8,ch)))

**6.2**

def isRepetitive(nList:list):

for e in nList:

if nList.count(e) > 1:

return True

return False

list1 = [1,2,1,3,1]

if isRepetitive(list1):

print("有重复元素")

else:

print("没有重复元素")

list2 = ['china', 'chinese']

if isRepetitive(list2):

print("有重复元素")

else:

print("没有重复元素")

**6.3**

def isRepetitive(nList:list):

nSet = set(nList)

if len(nList) > len(nSet):

return True

else:

return False

list1 = [1,2,1,3,1]

if isRepetitive(list1):

print("有重复元素")

else:

print("没有重复元素")

list2 = ['china', 'chinese']

if isRepetitive(list2):

print("有重复元素")

else:

print("没有重复元素")

**实验结果：**