1.1 F

1.2 T

1.3 T

1.4 T not if element is absent

1.5 F

2.1 3 ???

2.2 3

2.3 1

2.4 3

2.5 4

3

def dict\_invert(d):

res = {}

for key,val in d.items():

i = res.keys()

if val in i:

if type(res[val]) is list:

res[val].append(key)

else:

res[val] = [res[val],key]

else:

res[val] = key

return res

4.1

def getSublists(L,n):

if L is []:

return -1

if n > len(L) or n < 0:

return -1

res = []

for i in range (len(L)-n+1):

res.append(L[i:i+n])

return res

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

4.2

def longestRun(L):

if L is []:

return -1

run = 1

maxrun = 0

for i in range (len(L)-1):

if L[i] < L[i+1]:

run += 1

if maxrun < run:

maxrun = run

else:

run = 1

return maxrun

print (longestRun([1,2,3,4,1,2,1,4,5,6,7]))