Week 4 q1 psuedocode and bog o notation

FIND\_VALUES(LIST1, HOW, LOW, N): //4 attributes, list1=array of numbers, high and low=the two numbers to search for the integers in the list

start <-0 //starting point

end <-n //size of array

while start < end: //0 compared to n (6), 0+(6-0)/2 = 3, third position aka middle value

mid <-int start + [end – start] / 2 //gets the middle of the list

if low > list1[mid] and high > list1[mid]://it will compare each interger to the previous one

start <-mid +1 //checking each of the value then moving to the next one

elif low < list1[mid] and high < list1[mid]:

end <-mid # value(s) found

else:

return True

return False

list1 <- [2,3,5,7,8,13]

n <-6 #size of array

high <-10 #the gap of numbers were looking for between those two

low <-14

print(find\_value(list1,high,low,n))