GETMAXASCENDSEQUENCE(InputSeq)

‘’’a list of integers’’’

biggestSequence <- 0

subsequence <- []

sameSize <- False

listOfStartingIndex <- []

number <- 0

i <- 0

startingIndex = 0

While i ≠ length of InputSeq

Number = number + 1

If inputSeq[i+1] <= inputSeq[i]

if number > biggestSequence

startingIndex <- i-number +1

biggestSequence = number

number <- 0

else if number = biggestSequence

sameSize <- True

number <- 0

else

number <- 0

If I =0

Number = 1

Elif I = length of InputSeq

Number = number + 1

if number > biggestSequence

startingIndex <- i-number +1

biggestSequence = number

number <- 0

else if number = biggestSequence

sameSize <- True

number <- 0

else

number <- 0

append i-number to listOfStartingIndex

if InputSeq[i-1] <= InputSeq[i]

number = number+1

else

if number > biggestSequence

startingIndex <- i-number +1

biggestSequence = number

else if number = biggestSequence

sameSize <- True

append i-number to listOfStartingIndex

i <- i + 1

if sameSize = True

for i to length of listOfStartingIndex

append to subsequence (InputSeq[listOfStartingIndex[i]] to InputSeq[listOfStartingIndex[i]+number)

return subSequence

else

subsequence <- InputSeq[listOfStartingIndex[0]] to InputSeq[listOfStartingIndex[0] + number]

return subSequence