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# answer number 1
# Maximum Value Contiguous Subsequence. Given a sequence of n real numbers A(1) ... A(n), determine a cont


num_list = [1, 5, 8, 9 ,19, 56]
def do_sum(num_list):
  sum_list = [0] * (len(num_list)-1)
  for i in range(len(sum_list)):
    sum_list[i] = num_list[i] + num_list[i+1]
  return sum_list

def lin_search(sum_list, num_list):
  max, index = 0, 0
  f_num, s_num = 0, 0
  for i in range(len(sum_list)):
    if max < sum_list[i]:
      max = sum_list[i]
      index = i
  f_num, l_num = num_list[i], num_list[i+1]
  return max, f_num, l_num
out_max, out_fnum, out_lnum = lin_search(do_sum(num_list), num_list)
print("The contiguous elements that produce the maximum sum is " + str(out_fnum) +" and " + str(out_lnum)
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The contiguous elements that produce the maximum sum is 19 and 56 which produces a su
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