QUESTION 1

1. List

A list is suitable because different operations can be carried out on the numbers no matter their position.

1. It provides an initial choice or value for the maximum sub array sum.

It considers the element in index 0, or the 1st element in the list to be the first to potentially be the largest element available in the list.

This helps consider all the elements when checking the condition.

1. The “for loop” iterates from the first to the last element in the list. The purpose of the “sumz” variable, is to monitor the current sum of the subarray being used / considered. It is updated by adding “lst[i]” to it.
2. By continuously updating the “maxSum” variable whenever a larger sum is found. If the current value of “sumz” becomes greater than the current value of” maxSum”, it means that the current subarray has a higher sum, so “maxSum” is updated to that value. This process continues for each element in the list. The conditions that trigger the update of the “maxSum” variable are when “sumz” becomes greater than the current “maxSum”.
3. The time complexity is O10. This is because there are 10 elements in the list.

OBJECTIVES

QN1 C

QN2 B

QN3 B

QN4 D

QN5 C

QN6 B

QN7 A

QN8 B

QN9 A

QN10 A