

**KING SAUD UNIVERSITY**  
**COLLEGE OF APPLIED STUDIES AND COMMUNITY SERVICE**  
**GC211(Data Structures)**  
**Tutorial #1**

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- 1. Write an algorithm to find the largest of a set of numbers. You do not know the number of numbers.**

Find Largest

Input: A list of positive integers

Set Largest to 0

while (more integers)

  if (the integer is greater than Largest)

    then

      Set largest to the value of the integer

    End if

End while

Return Largest

End

- 2. Write an algorithm in pseudocode that finds the average of (n) numbers.**

Algorithm: find Average

Input: integer Array list [ ] of N positive integers

Output: Average of numbers.

Process:

  double sum ← 0

  double average ← 0

  count ← 0

  while (count < size of list)

    sum ← sum + list [Count]

    count ← count + 1

  End while

  average ← sum / n

  return average