PROGRAMMING BASICS

1) Algorithm and flow chart for finding second largest number in an array

* Start
* Declare variables n, Largest, second\_largest , array[n]
* Read n
* Read the array elements
* Initialize largest = array[0] , second\_largest = array[1] , i = 1
* Repeat the following steps till i < n :
  1. If array[i] is greater than Largest, set second\_largest to L:argest and Largest to array[i]
  2. Else if array[i] is greater than second\_largest, set second\_largest to array[i]
* Print second\_largest
* Stop

Read n

Read array elements

Largest = array[0],

Second\_largest = array[1],

i=1

false

true

i<n

Print second\_largest

array[i] > largest

false

array[i] > second\_largest

true

true

Second\_largest = Largest,

Largest = array[i],

i =i + 1

Second\_largest = array[i],

i = i+ 1

false

i = i+ 1