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Algorithm for finding the second largest number (Method-1):

Step 1: Start
Step 2: Declare variables max1=0, max2=0,n,k and i.
Step 3: Declare an array arr with size n.
Step 4: Read variable n.
Step 5: Repeat from k=0 to n.
Step 6: Read arr[k]
Step 7: Repeat from i=0 to n.
Step 8: If arr[i] is greater than max1, then max1 = arr[i]
Step 9: Repeat from j=0 to n.
Step 10: If arr[j] is less than max1 and arr[j] greater than max2,then max2 = arr[j]
Step 11: print max2.
Step 12: Stop.

Algorithm for finding the second largest number (Method-2):

Step 1: Start.
Step 2: Declare variable n and i.
Step 3: Declare a array value_list.
Step 4: Read variable n.
Step 5: Repeat i=0 to n.
Step 6: Read value and append it to value_list.
Step 7: Sort the value_list in descending order.
Step 8: Print the value_list[1].
Step 9: Stop.