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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.If arr[i] is greater than max1, then max1 = arr[i].

Step 8: Repeat from j=0 to n.If arr[j] is less than max1 and arr[j] greater than max2,then max2 = arr[j].

Step 9: print max2.

Step 10: 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.