**40. Find the second largest element in an array**

**Program:**

#include <iostream>

int findSecondLargest(int arr[], int size) {

if (size < 2) {

std::cout << "Array should have at least two elements.\n";

return -1;

}

int largest = arr[0];

int secondLargest = arr[0];

for (int i = 1; i < size; ++i) {

if (arr[i] > largest) {

secondLargest = largest;

largest = arr[i];

} else if (arr[i] > secondLargest && arr[i] != largest) {

secondLargest = arr[i];

}

}

return secondLargest;

}

int main() {

int arr[] = {5, 2, 8, 10, 3};

int size = sizeof(arr) / sizeof(arr[0]);

int secondLargest = findSecondLargest(arr, size);

if (secondLargest != -1) {

std::cout << "The second largest element in the array is: " << secondLargest << std::endl;

}

return 0;

}

**OUTPUT:**

