#include <stdio.h>

void main(){

int arr1[50], n, i, lrg, lrg2nd;

printf("\n\nFind the second largest element in an array :\n");

printf("-------------------------------------------------\n");

printf("Input the size of array : ");

scanf("%d", &n);

/\* Stored values into the array\*/

printf("Input %d elements in the array :\n", n);

for(i = 0; i < n; i++) {

printf("element - %d : ", i);

scanf("%d", &arr1[i]);

}

/\* Find the largest element in the array \*/

lrg = arr1[0];

for(i = 0; i < n; i++) {

if(lrg < arr1[i]) {

lrg = arr1[i];

}

}

/\* Find the second largest element in the array \*/

lrg2nd = arr1[0];

for(i = 0; i < n; i++) {

if(arr1[i] != lrg && arr1[i] > lrg2nd) {

lrg2nd = arr1[i];

}

}

printf("The Second largest element in the array is : %d \n\n", lrg2nd);

}