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Question No. 12 of 36 || 50 Marks

Class Topper and Looser

Exams were held at Chitkara University and the organization wants to improve the performance of the students so the organization decided to study the difference in marks in a group of students.

Write a program to help them to get the difference between the marks of the second topper and the second last loser from the given group of students.

Note: Difference of marks = 2nd highest marks – 2nd lowest marks.

All elements of the array are distinct

Input Format:

You have given an array Arr[] of size n.

C (gcc 4.8.3) ▼



▶ Compile & Run

O/P »

```
1  #include<stdio.h>
2
3  int main(){
4      int n;
5      scanf("%d",&n);
6      int arr[n];
7      int i;
8      for(i=0; i < n; i++)
9          scanf("%d",&arr[i]);
10
11     // edge case - when only 1 student gave test, then can't find diff
12     if(n==1){
13         printf("%d",arr[0]);
14         return 0;
15     }
16     if(n==0){
17         printf("%d",0);
18         return 0;
19     }
20     // sort the array(bubble sort)
21     int rounds,j;
22     for(rounds=1; rounds <= n - 1; rounds++){
23         for(j = 0; j <= n-rounds-1; j++){
24             if(arr[j] > arr[j+1]){
```

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