**CODECHEF**
An Educational Initiative

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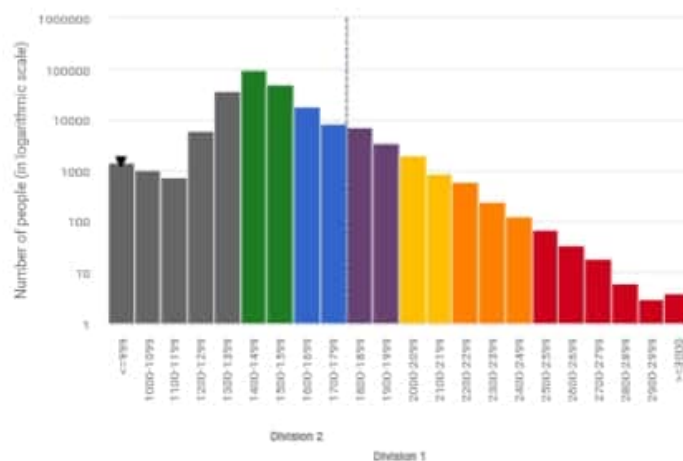▸ PRACTICE   ▸ COMPETE   ▸ DISCUSS    ▸ COMMUNITY   ▸ HELP   ▸ ABOUT

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## Pushpitha P    ✎ f ⚏

| | |
|---|---|
| Username: | pushpitha2001 |
| Country: | 🇮🇳 India |
| State: | Karnataka |
| City: | Mysuru |
| Student/Professional: | Student |
| Institution: | Alvas Institute of Engineering and Technology Karnataka, India |
| Teams List: | List of teams by Pushpitha P |
| Team Invites: | Click here to check team invites. 🔄 |

## Rating Graphs

| CodeChef | Long Challenge | Cook Off | Lunch Time |
|---|---|---|---|



**No Participation**

## CodeChef Rating Distribution



### 0

⭐

**CodeChef Rating**
(Highest Rating 0)

| NA | NA |
|---|---|
| Global Rank | Country Rank |

| Contests | Rating | Global Rank | Country Rank |
|---|---|---|---|
| Long Challenge | 0 | NA | NA |
| Cook-off | 0 | NA | NA |
| Lunch Time | 0 | NA | NA |

### Recent Activity

| Date/Time | Problem | Result | Lang |
|---|---|---|---|
| | No Recent Activity | | |

Code, Compile & Run | CodeC...  ⟳

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# Code, Compile & Run

Ide  ✕  +

C++14 (gcc 6.3)  ▼                          ⓘ  ⬇  ⤢  ⚙

```
1   #include <stdio.h>
2   int main()
3 ▾ {
4       int a[5],i,n,large,small;
5       printf("how many elements:");
6       scanf("%d",&n);
7       printf("enter the array:");
8       for(i=0;i<n;++i)
9       scanf("%d",&a[i]);
10      large=small=a[0];
11      for(i=1;i<n;++i)
12 ▾    {
13          if(a[i]>large)
14          large=a[i];
15          if(a[i]<small)
16          small=a[i];
17      }
18      printf("the largest elements is %d",large);
19      printf("\n the smallest element is %d",small);
20      return 0;
21  }
```

10:20                                          ⟲

Open File                    ✓ Custom Input        Run

Custom Input

```
5
1 2 3 4 5
```

Status  Successfully executed   Date 2020-06-05 05:52:43   Time 0 sec   Mem 15.232 kB        ✕

Input
```
5
1 2 3 4 5
```

Output
```
how many elements:enter the array:the largest elements is 5
 the smallest element is 1
```

# Algorithm to find the smallest and largest numbers in an array

Step 1 :- Start

Step 2 :- Input the array elements

Step 3 :- Initialize small = large = arr[0]

Step 4 :- Repeat from i = 2 to n.

Step 5 :- if (arr[i] > large)

Step 6 :- large = arr[i]

Step 7 :- if (arr[i] < small)

Step 8 :- small = arr[i]

Step 9 :- Print small and large

Step 10 :- Stop.

Flowchart to find the smallest and largest numbers in an array.

```
                    ┌──────────┐
                    (  Start   )
                    └──────────┘
                         │
                         ▼
              ╱────────────────────╱
             ╱ Read n ,a[i], small.╱
            ╱     large           ╱
           ╱────────────────────╱
                         │
                         ▼
              ┌────────────────────┐
              │  large = a[0]      │
              │  small = a[0]      │
              └────────────────────┘
                         │
                         ▼
              ┌────────────────────┐
              │  i=0; i<n; i++     │
              └────────────────────┘
                         │
                         ▼
              ┌────────────────────┐
              │  Read a[i]         │
              └────────────────────┘
                         │
                         ▼
    false     ┌────────────────────┐
   ◀──────────│  i=0; i<n; i++     │◀──────────────
              └────────────────────┘        True
                         │
                  False  ▼
                      ◇ large < Small ◇───────────────
                         │                        True
                 false   ▼
          ◀─────── ◇ A[i] > large ◇              ┌──────────┐
                         │                        │Small=a[i]│
                         │ true                   └──────────┘
                         ▼
    ╱────────╱     ┌──────────┐
   ╱Print large,╱  │large=a[i]│
  ╱ small.    ╱    └──────────┘
  ╱──────────╱
       │
       ▼
   (  Stop.  )
```