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# Integer array sorting - using function

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Problem

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Discussions

Define following function. Do not scan or print anything as part of following function.

```
void sort_integer_array(int arr[], int n);
```

Above function sorts given array of integers.

Scan input array in *main* function, then call *sort\_integer\_array* function from *main* function to sort given array of integers. And then print sorted array from *main* function.

Input Format

Input will contain two lines – first line will contain no. of elements *n* and second line will contain actual elements separated by space.

e.g.

```
7
```

```
1 3 4 2 4 5 6
```

Constraints

 $0 < n \leq 100000$  -  $100000 \leq \text{each element of array} \leq 100000$ 

Output Format

Output should have two lines - first line should contain no. of elements *n* and second line contains actual elements in ascending order separated by space.

e.g.

```
7
```

```
1 2 3 4 4 5 6
```

Sample Input 0

```
7
1 3 4 2 4 5 6
```

Sample Output 0

```
7
1 2 3 4 4 5 6
```

Sample Input 1

```
1
2
```

Sample Output 1

```
1
2
```

Sample Input 2

```
2
1 2
```

Sample Output 2

```
2
1 2
```

Sample Input 3

```
2
2 1
```

Sample Output 3

```
2
1 2
```

Sample Input 4

```
5
15 14 12 8 4
```

Sample Output 4

```
5
4 8 12 14 15
```

Sample Input 5

```
6
1 3 5 7 9 10
```

Sample Output 5

```
6
1 3 5 7 9 10
```

Sample Input 6

```
5
-3 2 -1 4 7
```

Sample Output 6

```
5
-3 -1 2 4 7
```

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Submissions: [145](#)


Max Score: 10

Difficulty: Medium

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C

```
1▼ #include <stdio.h>
2  #include <string.h>
3  #include <math.h>
4  #include <stdlib.h>
5
6▼ int main() {
7
8▼     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9     return 0;
10 }
11
```

Line: 1 Col: 1

 [Upload Code as File](#) ☐ Test against custom input

Run Code

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