[000001] Rearranging primes and composites in an array

Statement

Let A be an array of user-defined size. It contains positive integers.
You need to do the following:

Group the prime numbers on the left side and composite numbers on the right side of the array(1 is considered a composite number). The prime number group should be sorted in ascending order and the composite number group should be sorted in descending order. **You are not allowed to use an additional array other than the input array**. You may declare variables as needed.
Only use the printf statements given in the starting code.

For ex., Say the input array is [10, 9, 8, 7, 6, 5, 4, 3, 2,1]. In this array, the prime numbers are 7, 5, 3, and 2 and others are composite numbers. The output should be 2 3 5 7 10 9 8 6 4 1

Carefully look at the input and output format.

Input Format

The first number is the size of the array followed by the elements of the array.

Output Format

The consecutive elements should be separated by a single space character and a newline at the end. See the test cases.

Max. Score	10
Difficulty	0
Time limit	1.0 s
Memory limit	10240 KB
Submission limit	1000
Allowed file extensions	.c

Public test cases

Test Case 1

Input

```
5 5 14 124 3 4                                                          Copy
6 10 1 4 3 5 2
10 5 12 7 16 10 34 40 36 23 25
15 4 21 29 19 24 39 17 33 25 11 38 30 40 6 1
10 10 9 8 7 6 5 4 3 2 1
2 2 2
3 1 5 5
4 2 3 5 7
5 2 3 5 7 11
4 4 8 12 16
5 4 8 12 16 20
```

Output

```
3 5 124 14 4                                                            Copy
2 3 5 10 4 1
5 7 23 40 36 34 25 16 12 10
11 17 19 29 40 39 38 33 30 25 24 21 6 4 1
2 3 5 7 10 9 8 6 4 1
2 2
5 5 1
2 3 5 7
2 3 5 7 11
16 12 8 4
20 16 12 8 4
```

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Submit Solution for Rearranging primes and composites in an array
Submissions left: 985

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