

# C++ Fundamentals – Exam

The following tasks should be submitted to the SoftUni Judge system.

## 1. Fun Sequence

Write a program which **reads a sequence of integers**, then finds and prints the numbers that are **even** and are **lower than the average** value in the sequence. Sort the numbers in **descending** order.

### Input

Read from the console:

- An integer number – size of the array.
- A sequence of numbers – the elements of the array.

### Output

Print the described above numbers on a single line, space separated. Print **“No”** if no numbers hold the above property or if the size of the array is a non-positive number.

### Constraints

All input numbers are integers in range [-1 000 000 ... 1 000 000]. The count of numbers is in range [1...50].

### Examples

| Input                                | Output | Comments  |
|--------------------------------------|--------|---|
| 8<br>-7 6 4 4 8 3 12 -6              | -6     | Average number = 3.<br>Numbers lower than 3 are: {-7, -6}.<br>Among them, only -6 is an even number.  |
| 10<br>15 50 -61 3 -22 222 -4 1 11 -5 | -4 -22 | Average number = 21.<br>Numbers lower than 21 are:<br>{15, -61, 3, -22, -4, 1, 11, -5}.<br>The even numbers among them in<br>descending order are: {-4, -22}. |
| 1<br>5                               | No     | Average number = 5.<br>There are no numbers, lower than 5.  |