# C++ Fundamentals - Retake Exam (15 May 2021)

# 1. Top 5 Elements

Write a program to read a sequence of integers and find and print the top 5 numbers that are greater than the average value in the sequence, sorted 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. If less than 5 numbers hold the mentioned above property, print less than 5 numbers. Print "No" if no numbers hold the above property.

#### **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
5 10 20 30 40 50	50 40	Average number = 30.  Numbers greater than 30 are: {40, 50}.
		The top 5 numbers among them in descending order are: {50, 40}.
		Note that we have only 2 numbers, so all of them are included in the top 5.
13 5 2 3 4 -10 30 40 50 20 50 60 60 51	60 60 51 50 50	Average number = 28.08.
		Numbers greater than 28.08 are: {30, 40, 50, 50, 60, 60, 51}.
		The top 5 numbers among them in descending order are: {60, 60, 51, 50, 50}.
1	No	Average number = 1.
1		There are no numbers, greater than 1.
6	-1 -2 -3	Average number = -3.5.
-1 -2 -3 -4 -5 -6		Numbers greater than -3.5 are: {-1, -2, -3}. The top 5 numbers among them in descending order are: {-1, -2, -3}.











