# Problem 3 – Numbers

The problem for exam preparation for the [Programming Fundamentals Course @SoftUni](https://softuni.bg/courses/programming-fundamentals-csharp-java-js-python).

Submit your solutions in the SoftUni judge system at <https://judge.softuni.org/Contests/Practice/Index/2474#2>.

Write a program to **read a sequence of integers** and find and print the **top 5** numbers **greater than the average** value in the sequence, sorted in descending order.

## Input

* Read from the console a single line holding **space-separated integers**.

## Output

* Print the above-described numbers on a single line, space-separated.
* If **less than 5 numbers** hold the property mentioned above, **print less** than 5 numbers.
* Print **"No"** if no numbers hold the above property.

## Constraints

* All input **numbers** are integers in the **range [-1 000 000 … 1 000 000]**.
* The **count of numbers** is in the **range [1…10 000]**.

## Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 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. |
| 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.  There are no numbers greater than 1. |
| -1 -2 -3 -4 -5 -6 | -1 -2 -3 | Average number = -3.5.  Numbers greater than -3.5 are: {-1, -2, -3}.  The top 5 numbers among them in descending order are: {-1, -2, -3}. |

## JS Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| '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. |
| '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 20.078 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.  There are no numbers greater than 1. |
| '-1 -2 -3 -4 -5 -6' | -1 -2 -3 | Average number = -3.5.  Numbers greater than -3.5 are: {-1, -2, -3}.  The top 5 numbers among them in descending order are: {-1, -2, -3}. |