Exercise: Lambda and Built-In Functions

Problems for exercise and homework for the Python Advanced Course @SoftUni. Submit your solutions in the SoftUni judge system at https://judge.softuni.bg/Contests/1841

1. Sort Names

Write a program that receives a list of names, separated by **space** and prints the names **sorted in descending order.**

Example

Input	Output
`Gosho Stamat Pesho Stefan`	`Stefan Stamat Pesho Gosho`

2. Sort Numbers

Write a program that receives a list of strings. **Keep the numbers**, **remove the names** and check if the numbers are bigger than the i**nitial length of the list**. Then print the numbers in **ascending order**

Example

Input	Output
`nuGosho 7 10 St20amat Pesho 3 47`	`10 47`

3. Multiplication

You will receive **a number and a list of numbers. Multiply each number** with the initial number and **print the result.**

Example

Input	Output
7 2 3 4 5 6	14 21 28 35 42

4. Sort

You will receive a **list of numbers**. **Remove** the positive numbers, **sum** the negative numbers and **print the absolute value.**

Example

Input	Output

-1 2 -3 4 5 6 -7 -9 -25	45

5. Whole Number

You will receive a **list of numbers**. **Round** every number and **print** the total sum **multiplied** by the length of the initial list.

Example

Input	Output
4.3 5.6 5.5 1.2 7.9	125

6. Unique Numbers

You will receive a **list of numbers**. **Round the numbers, print** the min and max and **multiply** the numbers by 3. **Print** only the **unique numbers in ascending order** separated by space.

Example

Input	Output
7 9 15 432 1.2 0.2 0.5 1 6	0 432 0 3 18 21 27 45 1296

7. Unique Names

You will receive a **list of names**. **Filter** the bad names and print the **total sum of the length of the names**. A **valid name** is a name that starts with an **uppercase letter** and **the rest is in lower case**.

Example

Input	Output
Pesho Gosho staMaT PresLav Stefan Martin	22

8. Negative vs Positive

You will receive a **list of numbers**. **Separate** the negative numbers from the positive. Find the **total sum of the negatives and positives**, **replace** the negative number with its **absolute value** and **print the following:**

If the **absolute negative number** is bigger than the **positive number**:

```
"The negatives are stronger than the positives"
```

If the **positive number** is bigger than the **absolute negative number**:

```
"The positives are stronger than the negatives"
```

Example

Input	Output
1 2 -3 -4 65 -98 12 57 -84	-189 137 The negatives are stronger than the positives

9. Odd or Even

You will receive a **command** and a **list of numbers**:

If the command is **"Odd"**: Print the **sum of the Odd** numbers multiplied by the **length** of the initial list.

If the command is **"Even"**: Print the **sum of the Even** numbers multiplied by the **length** of the initial list.

Example

Input	Output
Odd 1 3 5 34 7 9 12 11 13 10	490