## 4.Non-Decreasing Subset

Write a function that extracts only those numbers that forma **non-decreasing subset**. In other words, you start from the **first element** and continue to **the end** of the givenarrayof numbers. Any number which is **LESS THAN** the **current biggest one** is **ignored**, alternatively if it’s **equal or higher** than the **current biggest one** you set it as the **current biggest one** and you **continue** to the next number.

### Input

The **input** comes as an array of numbers.

### Output

The **output** is the processed array after the filtration, which should be a non-decreasing subset. The elements should be printed on one line, separated by a **single space**.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| [ 1, 3, 8, 4, 10, 12, 3, 2, 24] | 1 3 8 10 12 24 |
| [ 1, 2, 3, 4] | 1 2 3 4 |
| [ 20, 3, 2, 15, 6, 1] | 20 |

### Hints

* The **Array.filter()** built-in function might help you a lot with this problem.