# Algorithms Fundamentals with Python: Exam

Please submit your solutions (source code) to all the below-described problems in [Judge](https://judge.softuni.org/Contests/4044).

## 3. Goals

You are given a list of numbers, representing the goals scored by a football team in each match played in the current season. You want to find the best sequence of matches where the **number of goals scored increases from one match to the next**.

For example, if the team's goal scores are [0, 1, 3, 2, 4, 6, 5], then the best subsequence is 5, corresponding to the sequence [0, 1, 3, 4, 6].

Assume that **ties are allowed**, i.e., a match where the team scores the **same number of goals** as in the previous match is considered to be **increasing**.

### Input

* + On the first line, you will receive the sequence of goals in the following format: **"{first\_match\_goals}, {second\_match\_goals}, …, {n\_match\_goals}"**.

### Output

* + Print the best sequence in the following format: **"{first\_seq\_goals} … {n\_seq\_goals}"**.

### Constraints

* + Numbers will be integers in the range **[1… 10]**.
  + You may assume that the input list contains at least one element.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 0, 1, 3, 2, 4, 6, 5 | 0 1 3 4 6 |
| 2, 2, 1, 5, 4, 6, 7, 3 | 2 2 5 6 7 |