# More Exercises: Basic Syntax, Conditional Statements, and Loops

This document defines the additional exercises for the ["Python Fundamentals" course at @Software University.](https://softuni.bg/trainings/4379/programming-fundamentals-with-python-january-2024)

Please submit your solutions (source code) to all the below-described problems in [Judge](https://judge.softuni.org/Contests/1720/Basic-Syntax-Conditional-Statements-and-Loops-More-Exercises).

***Note: All the exercises are excluded from your homework!***

## Find the Largest

You will be given a **number**. Print the **largest number** that can be **formed from the digits** of the given number.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 213 | 321 |
| 7389 | 9873 |

## Find the Capitals

Write a program that takes a **single string** and prints a **list** of all the **capital letters indices.**

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| pYtHoN | [1, 3, 5] |
| CApiTAls | [0, 1, 4, 5] |

### Hint

If you do not know what lists are, search them on Google, find out how to create them, and add elements to them.

## Wolf in Sheep's Clothing

*Wolves have been reintroduced to Great Britain. You are a sheep farmer and are now plagued by wolves who pretend to be sheep. Fortunately, you are good at spotting them.*

Warn the sheep in front of the wolf that it is about to be eaten. Remember that you are standing at the front of the queue, which is **at the end of the list**:

**[sheep, sheep, wolf, sheep, sheep] (YOU ARE HERE AT THE FRONT OF THE QUEUE)**

**4 3 2 1**

If the **wolf is the closest animal to you**, print **"Please go away and stop eating my sheep"**. Otherwise, return **"Oi! Sheep number N! You are about to be eaten by a wolf!"** where **N** is the sheep's **position** in the queue.

**Note: there will always be exactly one wolf on the list.**

### Input

The input will be a **single string** containing **the animals** separated by a comma and a single space **", "**

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| sheep, sheep, wolf | Please go away and stop eating my sheep |
| wolf, sheep, sheep, sheep, sheep, sheep | Oi! Sheep number 5! You are about to be eaten by a wolf! |

## Sum of a Beach

Beaches are filled with sand, water, fish, and sun. Given a **string**, calculate how many times the words **"Sand", "Water", "Fish", and "Sun" appear** (**case insensitive**).

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| WAtErSlIde | 1 |
| GolDeNSanDyWateRyBeaChSuNN | 3 |
| gOfIshsunesunFiSh | 4 |
| cItYTowNcARShoW | 0 |