



## Introduction to Computer Science for Engineers

## Sort Universities



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Most programming languages provide their own sorting algorithms. Python has two functions for this: `sort` and `sorted`. We will look closer into them in this assignment.

### Assignments

Python provides its own documentation at <https://docs.python.org/3>. It contains information about the language, the provided standard library functions and much more.

1. Read about sorting in the Python documentation: <https://docs.python.org/3/howto/sorting.html>. Prepare for basic questions from your exercise leader.
2. Play around with the different sorting functions. Use the provided `sort_universities.py` script.
3. Sort the list `universities` by age, then by name. Print the results.

**Hint:** Have a look into the `key` parameter for the sorting functions.

4. Using unnamed tuples can get confusing. Is the age stored in column one or two? For this purpose we create the list `universities_objects`, that stores universities as objects with properties.

Complete the class `University` by setting all properties to the right values.

5. Sort the new list `universities_objects` first by age, then by name. Print the results.



### Template files

Get all files in an archive `templates.zip` or `templates.tgz`.

`sort_universities.py`

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