

Programming A

2nd Weekly Note (E12, Week 37)

Announcement

For those of you seeking some additional challenges, there is a set of additional exercises from last year:

<http://dm502.vigtig.it/>

If you feel like some additional practice, give these a try.

Reading for Week 37

- Chapters 5-8 of “Think Python: How to Think Like a Computer Scientist”

Lecture: Wednesday, September 12, 12-14 (U20)

In this lecture we will repeat and extend what we know about functions. Additionally, we will introduce conditional execution. Finally, we will use functions and conditional execution to solve problems by using recursive functions.

Lecture: Friday, September 14, 14-16 (U55)

We will start by repeating the idea of recursive functions. Please take a look at the slides from the previous lecture and try to understand what questions you want to ask during the lecture.

Then we will learn about programming using iteration (while loops and for loops). Finally, we will learn how to work with strings by understanding them as sequences of characters.

Exercises: see detailed schedule on course home page

First do Exercises 3.1–3.5 and 5.1–5.2 from the textbook. Then install the `swampy` package (if it is not installed yet):

<http://www.greenteapress.com/thinkpython/swampy/install.html>

Do the exercises in Section 4.3 of the textbook as well as Exercises 5.3–5.4. If you are fast, also do Exercises 4.1–4.4 of the textbook.

Then do Exercises 6.1, 6.3, and 6.7. Continue with 6.4–6.6 and, finally, with 7.1–7.5.