

# Survival Guide for 02326 Algorithms and Data Structures 1

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**About the Guide** This note is a short survival guide to the most important things you need to know about 02326 Algorithms and Data Structures 1.

**Book** We mainly use the book "Introduction to Algorithms", 4th edition (CLRS), Cormen, Leieron, Rivest, and Stein. See the course homepage for other materials used in the course.

**Weekly Structure** The homepage organizes material and their exercises together in a single week. The weekly schedule is as follows:

**8.00-10.15** Exercise class on material from the previous lecture.

**10.15-11.15** Lectures on new material.

**11.15-12.00** Exercise class on material from today's lecture.

The very first exercise class of the semester is listed as "week 0" (since there is no corresponding lecture). The weekplans, materials, etc., are on the course homepage.

**Exercises** Before the first exercise class of each week, familiarize yourself with all exercises and work on at least half. Do not expect to have time to solve all exercises during class. Work on the exercises in your preferred order and focus on weak points in your understanding. Some exercises are marked with a short code  $i$   $[\ ]$ , which means the following:

- $[w]$  A warmup exercise. These should be easy if you have understood the material for the week.
- $[*]$  and  $[**]$  A difficult and a very difficult exercise, respectively. These exercises usually require clever and creative insights to solve. Work on these after you have solved the other exercises.
- $[\dagger]$  An exercise that involves programming.

**Hand-in Exercises** During the course, we will post several (non-mandatory/voluntary) hand-in exercises. See the homepage for details of the hand-in exercises.

**Programming** You can use any standard imperative programming language (e.g., Python, Java, C, C++) for the implementation exercises. The default programming language is Python.