

Algorithms & Data Structures: Lab 15

week of 11th February 2019

1 Setup

1.1 Saving your work from last week

By now you should be familiar with the operations needed to save your work. Make sure you commit your work to version control often, and always have a backup copy, ideally remotely (for example in your own account on the department's gitlab installation.)

1.2 Downloading this week's distribution

Other than this labsheet, there are no new files for this week's lab.

2 Current activities

2.1 Graphs lab exercise

The graphs lab submission area is now open; it closes at **16:00 on Friday 15th February**.

2.2 Graphs quiz

The quiz on Graphs closes at **16:00 on Friday 15th February**. It is a challenging quiz; make sure you leave yourself time to attempt it at least twice by then.

3 Written assignment

The brief for your written assignment is now available. You should start your research and development in good time, so that you can submit your drafts for peer-assessment by **16:00 on Friday 15th March**, and submit your final version by **16:00 on Friday 29th March**.

4 Exercises

In the coming half term we will have time to look at some of the theoretical exercises set as we have gone through the syllabus, **in addition to** the regular practical assignments. In the next three lab sessions, come prepared to present your answers to the following problems and exercises as follows:

4.1 Week of 25th February 2019

- Problems from CLRS: 1-1, 2-2, 3-2, 3-3
- Exercises from CLRS:

 sections 2.1–2.3 2.1-1, 2.1-2, 2.2-1, 2.2-2, 2.2-4, 2.3-1, 2.3-3, 2.3-4
 section 4.5 4.5-1, 4.5-2
- Exercises from DPV: 0.1, 0.2

4.2 Week of 4th March 2019

- Exercises from CLRS:

 section 6.1 6.1-1, 6.1-2, 6.1-3, 6.1-4;
 section 10.4 10.4-1
 sections 11.1–11.4 11.2-2, 11.4-1
 sections 12.1–12.3 12.1-1, 12.2-1, 12.2-2, 12.3-1, 12.3-3
 sections 32.1–32.2 32.1-1, 32.1-2, 32.2-2

4.3 Week of 11th March 2019

- Exercises from CLRS:

 section 15.1 15.1-1, 15.1-4, 15.1-5
 sections 23.1–23.2 23.1-7, 23.2-1, 23.2-2, 23.2-4, 23.2-5
 section 24.3 24.3-1
- Problems from CLRS: 6-1, 23-1, 15-4, 15-5
- Exercises from DPV: 5.1, 5.2, 5.5, 6.1, 6.2