Course Organization
L3 Algorithmics and Programming

Pierre Senellart

27 September 2018
Course Organization

- 2-hour lecture every week (Thursday), from 8:30 to 10:30, in room U/V
- 1 hour and a half of exercise session weekly (Thursday in English or Friday in French, your choice), from 10:45 to 12:15, in room U/V
- Homework (theoretical questions + programming exercises) to hand out every week, amounting to 30% of the final grade (Tatiana will give details at the end of the first lecture, see also guidelines on course forum)
- 3-hour final exam, on January 24 from 9:00 to 12:00 in room U/V, counting for 70% of the final grade

Course material, homework uploads, announcements, etc., all via Moodle: https://moodle.di.ens.fr/course/view.php?id=2
Log in with your clipper account (if you do not have one, let me know)
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Teachers

**Pierre Senellart**
Professeur ENS, Data Management team
Half of the lectures, in charge

**Tatiana Starikovskaya**
Maître de conférence ENS, Algorithmics team
Half of the lectures, Thursday’s exercise session, homework

**Pierre Aboulker**
Maître de conférence ENS, Algorithmics team
Friday’s exercise session, homework
Bibliographie

- Most of the course relies on this textbook:
    *Introduction to Algorithms.*
    *Algorithmique.*

- Corresponding chapters (3rd edition) are marked in the course summary (here and on Moodle)

- Some lectures go beyond this textbook, noted with a *
Curriculum (1/2)

27/09  Introduction to algorithms and data structures (chap. 1-3, 10, 12, 17), Pierre

04/10  Divide and conquer (chap. 4, 30), Pierre

11/10  Dynamic programming and greedy algorithms (chap. 15, 16), Pierre

25/10  Sorting algorithms (chap. 6-8), Tatiana

08/11  Data structures for sets and hashing (chap. 11, 13), Pierre

15/11  Disjoint-set data structures (chap. 21), Pierre
Programme du cours (2/2) – Tatiana

22/11  Text algorithms (chap. 32), Tatiana
29/11  Minimum spanning tree (chap. 23), Pierre
06/12  Depth-first search (chap. 22), Tatiana
13/12  Shortest paths (chap. 24), Tatiana
20/12  Flow networks (chap. 26), Tatiana
10/01  Flow networks II (chap. 26), Tatiana
24/01  Exam
If you agree, lectures will be in English
Thursday’s exercise session is in English
Friday’s exercise session is in French
All teachers speak both English and French, you can use either in homework, exam, Moodle interactions, etc., indifferently
Most course materials are in English
Questions?