C++ Advanced

Course Overview





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A guy that knows C++



C++ Advanced



- Teaches concepts specific to C++ and OOP in it
 - Focuses on the features, tools, and pitfalls of C++
 - Mostly the C++11 standard (later standards are not core changes)
- Introduces concepts with their usages and good practices
 - Gives basic code organization knowledge and skills
 - Does NOT focus on algorithms and programmatic thinking
 - Does NOT go into OOP design patterns or large-codebase design
- Requires understanding of functions, STL, Classes & Objects

Curriculum (1/2)



- 1. C++ Pointers and References 3 Sep 2018
- 2. Memory Management 10 Sep 2018
- 3. Exercise 17 Sep 2018
- 4. Advanced C++ Class Members 26 Sep 2018
- 5. Code Organization & Templates 1 Oct 2018
- 6. Exercise 8 Oct 2018
- 7. Destructors, Copy-Assignment, Construction 15 Oct 2018

Curriculum (2/2)



- 8. C++ OOP Inheritance and Polymorphism 22 Oct 2018
- 9. C++ OOP Pure Virtual Members 29 Oct 2018
- **10**. Exercise 5 Nov 2018
- 11. Exam Preparation 12 Nov 2018
- 12. Exam* 18 Nov 2018 (09:00 15:00)
- 13. "Retake" Exam* 2 Dec 2018 (09:00 15:00)

^{*} Can attend first, second, or both exams (to attend both you pay an additional tax)

Homework



- 4-5 programming tasks per lecture, submitted to Judge system
 - Mostly cover lecture
 - Deadline: 1 day after next lecture (except for lecture 3)
- Test on each lecture with 10 short, single-choice questions
 - 20 minutes per test
 - Can be taken only once
 - Active from day after lecture to end of day before next lecture

Exam



- 4 programming tasks covering the entire course, 6 hours
- Conducted on-site at SoftUni (no online exam)
- Solutions submitted to the <u>Judge system</u>
- Allowed to use ANY materials available
- NOT allowed to:
 - Communicate with anyone inside or outside the exam hall
 - Copy or discuss other students' solutions

Course Results



Exam(72) + Judge Homework(20) + Tests(8) = 100 Max points

- Getting a certificate 65 points or more (grade 5.00)
- Passing the course 30 points or more (grade 3.00)
- Other requirements:
 - Don't cheat on exams
 - Don't copy other students' homework
 - Be nice to fellow students ©

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SEO and PPC for Business



Questions?

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