

Data Structures Advanced (with Java)

Course Introduction



SoftUni Team
Technical Trainers



SoftUni

Software University

<https://softuni.bg/>

Table of Contents

1. Course Objectives
2. Training and Team
3. Course Organization
 - Course Infrastructure
 - Evaluation Criteria



sli.do

#ds-java

SoftUni Diamond Partners

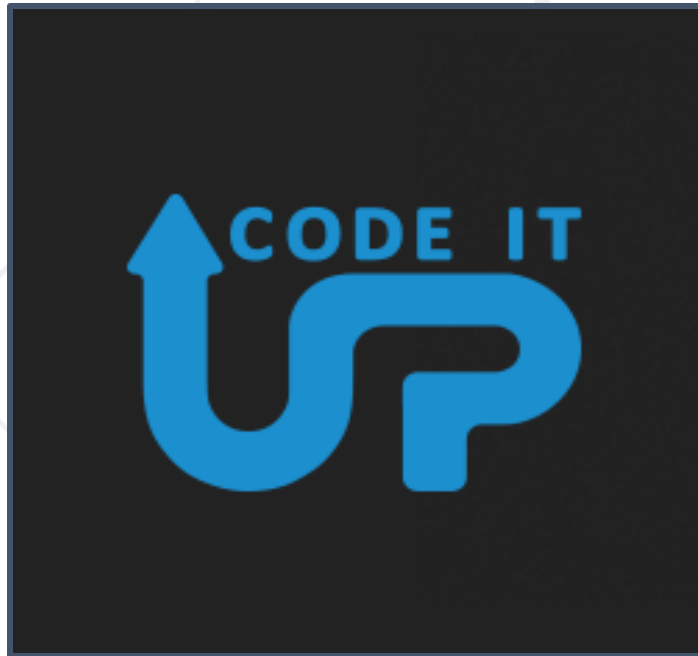


SCHWARZ



**SUPER
HOSTING
.BG**





VIRTUAL RACING SCHOOL





Course Objectives

Course Objectives

- Working with tree like data structures
- Balancing BSTs with different operations
- Performance and use cases
- Working with hashing algorithms
- Implementation of tables
- Dealing with collisions
- Data structures augmentation



Practical Programming Exam

- Exam
 - 3 practical problems – three and a half hours
 - AVL Trees
 - Red-Black Trees
 - AA Trees
 - Hash-Tables
 - Sets
 - Everything included in the course



Theoretical Exam



- You will have 30 minutes once you enter
- 20 questions with:
 - Multiple choice with only one correct answers
 - English
- Automated quiz system
- Available online at the day and time of the practical exam
 - You can submit your answers just once



The Team

- Top performing student from the Software University (2014)
- 8 years of programming experience
- Teacher at TUES
- Experienced with Java, Scala, JavaScript and other platforms and technologies.



- Java Developer @ VMware
- Experience with Java, C++, C#
- Technical Trainer @ SoftUni
- Interested in Astrophysics





Course Organization

- Your homework:
 - Lesson days → slides + live demos + exercises + tests
- How to submit your homework?
 - For practical problems:
Submitted in the [judge system](#)
 - For tests <https://quiz.softuni.bg/>
- Do your homework when it's due
 - Assignments pile up quickly







Course Web Site, Forum and FB Group

- Official web site:

<https://softuni.bg/trainings/3673/data-structures-advanced-with-java-april-2022>

- Official discussion forum:

<https://softuni.bg/forum>

- Official Facebook group:

<https://www.facebook.com/groups/DataStructuresAdvancedwithJavaApril2022>



Questions?



SoftUni



Software
University



SoftUni
Svetlina



SoftUni
Creative



SoftUni
Digital



SoftUni
Foundation

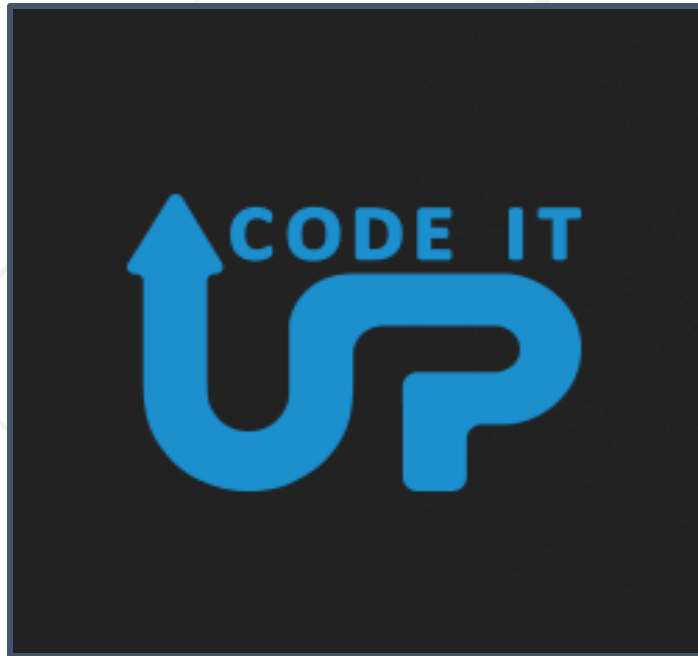


SoftUni
Kids



SoftUni Diamond Partners





VIRTUAL RACING SCHOOL



- Software University – High-Quality Education, Profession and Job for Software Developers

- softuni.bg, about.softuni.bg

- Software University Foundation

- softuni.foundation

- Software University @ Facebook

- facebook.com/SoftwareUniversity

- Software University Forums

- forum.softuni.bg



- This course (slides, examples, demos, exercises, homework, documents, videos and other assets) is **copyrighted content**
- Unauthorized copy, reproduction or use is illegal
- © SoftUni – <https://about.softuni.bg/>
- © Software University – <https://softuni.bg>

