# Data Structures Fundamentals (with Java)

Course Introduction





**SoftUni Team Technical Trainers** 



https://softuni.bg/

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#### Have a Question?



# QA Sessions sli.do

#DS-Java

#### **SoftUni Diamond Partners**



SUPER HOSTING .BG



























#### **Course Objectives**





- Implementing data structures
- Comparison between similar operations in different data structures
- Building solid knowledge base on data storage implementation details and optimization problems in real time environment

#### **Course Objectives**



The course will be conducted by recording.

- The videos and learning resources will be available on the day of the class at 10:00 a.m., from the course page.
- There will be a live Exam Preparation with the lector where you can ask questions and go over the more complex points of the material.
- The date of the Exam Preparation is on 03 October at 18:30.



#### **Time Management**





Introduction to Data Structures Fundamentals
(with Java)
5 weeks \* twice/week

Start: 05-Sep-2023

Exam Regular: 07-Oct-2023
Exam Theoretical Regular - 07-Oct-2023

Exam Retake: 14-Oct-2023

**Exam Theoretical Retake: 14-Oct-2023** 

#### **Practical Programming Exam**



Exam

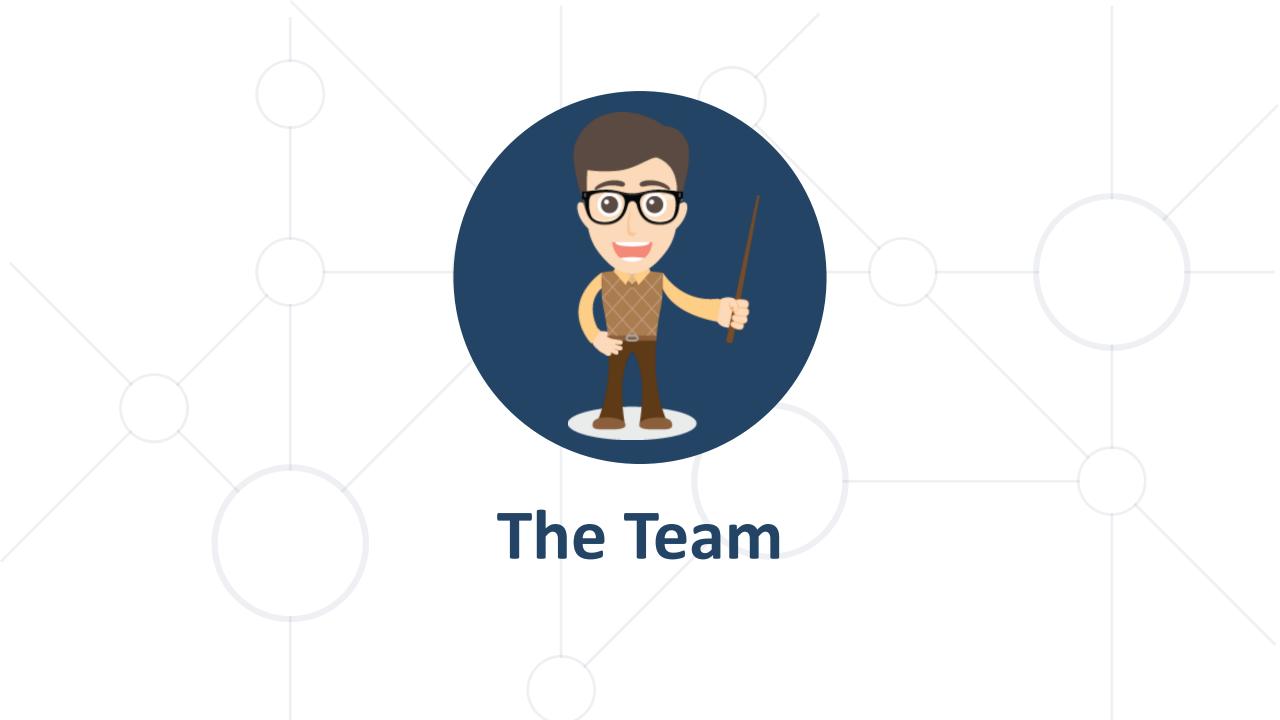


- 4 practical problems for four hours
- Two conditions in the competition
  - 2 Correctness 100 points each
  - 2 Performances 50 points each
  - Everything included in the course

#### **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



# **Nikolay Bankin**



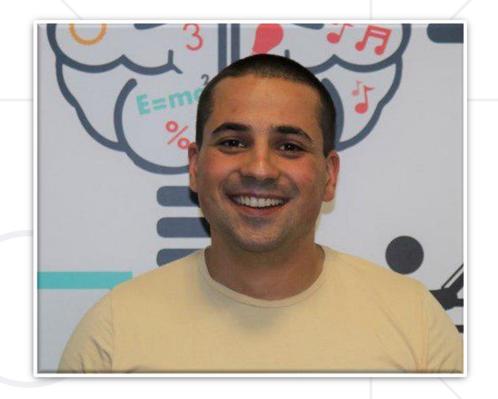
- Software Engineer with many years of experience with various technologies
- Teacher at TUES
- Many years of experience as a Trainer
- He has worked with Scala, Akka,
   Java and JavaScript



#### **Martin Paunov**



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



# Georgi Georgiev



- Technical trainer @ SoftUni
  - C++, C#, Java, Data Structures and others
- Developer @ vrs.racing
  - Java, JavaScript, C++
- Experience
  - 5+ years training, 11+ years coding
- Wrote a driving simulator once in high school (DriveFreeZ)
- Played around with OpenGL, Bullet Physics SDK, WinRT

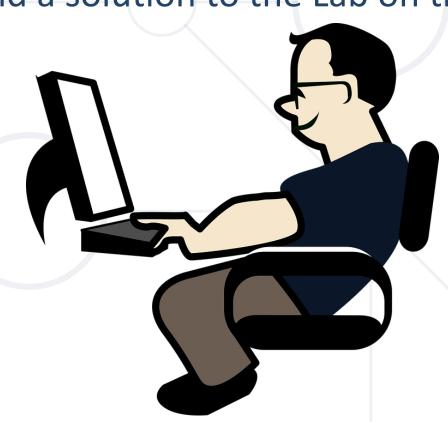




#### **Homework Assignments & Exercises**



- Your homework:
  - Lesson days → slides + demos + exercises + tests
  - One week after each lesson you will find a solution to the Lab on the course page
- How to submit your homework?
  - For practical problems:
     Submitted in the judge system
  - For tests <a href="https://quiz.softuni.bg/">https://quiz.softuni.bg/</a>
- Do your homework when it's due
  - Assignments pile up quickly



#### **SoftUni Certificate**





# **CPE Certificate**





# Course Web Site, Forum and FB Group



Official web site:

https://softuni.bg/trainings/4275/data-structures-fundamentals-with-java-september-2023



https://softuni.bg/forum

Official Facebook group:

https://www.facebook.com/groups/DataStructuresFundamentalswithJavaSeptember2023







#### **Learn to Search in Internet**



- The course assignments require to search in Internet
  - This is an important part of the learning process
  - Some exercises intentionally have no hints
- Learn to find solutions!
  - Software development includes everyday searching and learning
  - No excuses, just learn to study!
  - Developers learn new technologies, tools, languages every day!





# Questions?

















# Trainings @ Software University (SoftUni)



- 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









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