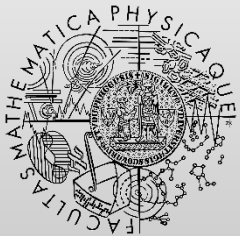# Homework 4: Finding Bugs in Real Software

Department of
Distributed and
Dependable
Systems

D3S

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FACULTY
OF MATHEMATICS
AND PHYSICS
Charles University

Task

- Use arbitrary verification tools on your own large and non-trivial program (select one)
  - Bachelor thesis (individual SW project)
  - Assignment (e.g., from OS, Java and C#)
  - Team software project (maybe too big)

- Find as many bugs in the program using available tools
  - Alternatively, show that program does not violate important functional correctness properties

- Write short experience report
  - Describe tools and verification methodologies that you tried to use
  - List of all bugs that you discovered (for each provide: explanation, counterexample, source code fragment, root cause, and so on)
  - Discuss main challenges and obstacles that you encountered (solved)

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Organization

- Deadline: **30.6.2025**

- Submission
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