TECHNISCHE UNIVERSITÄT KAISERSLAUTERN

5th Hands-on sheet for Advanced Algorithmics, SS 15

Hand In: *in lecture, exercise sessions, hand-in box in stairwell 48-6 or via email.*

Step 4.4: Find better algorithms – randomisation

Try to apply the new concepts from lecture to our scenarios.

- Research randomised algorithms (exact and approximations) for the problems we model our scenarios with that run polynomial (expected) time.

- Implement the most promising candidates and run them against your testbed. What do you observe in terms of performance?

- Run the algorithms on our real-world data. How do they perform? Can you explain differences in performance?

> Still stuck in step two due to time restrictions? No worries, you do not *have* to work on the real data. It is completely fine if you work only on synthetic data!
> Note also that you do not have to work on the steps in sequence; feel free to join in at any time!
> Our repository – `https://github.com/reitzig/advalg15` – awaits your contributions!