

5th Hands-on sheet for Advanced Algorithmics, SS 13

Hand In: Exercise sessions, hand-in box in stairwell 48-6 or 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/advalg13> – awaits your contributions!