Seminar: Search and Optimization 6. Software Project

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• Phase 1: Uninformed search

Task: Implement some uninformed solver for your domain Submission deadline: 29 November 2012

• Phase 2: Informed search

Task: Implement some heuristic solver for your domain Submission deadline: 10 January 2013

• Phase 3: Improvements

Task: Improve your solver (depending on results after phase 2) Submission deadline: 31 January 2013 Analysis

- Familiarize yourself with your domain
- How can you characterize it (e.g., size of state space, branching factor, complexity, ...)?
- What methods appear promising?
- Solve problems optimally or allow suboptimal plans?
- Consult your advisor

Implementation

- C++
- First strive for clean, readable code, then optimize it for efficiency
- Get feedback from you advisor frequently and already at an early stage (e.g., discuss your architecture before implementing it)

Evaluation

- Evaluate in each phase
- Plan your experiments: What do you want to find out? How can you accomplish this?
- As always, you are welcome to consult your advisor

Submission after each phase: Code and summary of evaluation results

Done: Assignment of projects and advisors

Next steps:

- Create mercurial repository and grant your advisor write access
- Schedule kickoff meeting with your advisor
- Your advisor will put the problem instances into your repository.