



Sebastian Hack
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**Tutorials for “Advanced C”
Exercise sheet 8**

Exercise 8.1: (5 P)

Take the memory module from the web-site and incorporate it into your program such that there are no `malloc()` and `free()` calls in your program anymore. Make sure that your program does not have any leaks nor other errors when it is compiled and run with SATCHEK both in optimized mode and in debug mode.

Exercise 8.2: (15 P)

Extend your SAT solver by the watch 2 literal refinement. Make sure your program does not have memory leaks and enjoys the well-known properties of advanced C code (documentation, no warnings ...). Time your new program against the old version on the `sat-test*.cnf` examples from exercise sheet 5 and check also a small tabular on the runtime result comparison called `runtime_results.pdf` into the svn repository.

Submit your solution until the lecture on January 06.

Note: Joint solutions are not permitted.