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## Compiler Construction Project WS11/12

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### Project task H. Lowering and Back End

This will be the last project assignment in which you will lower the high-level FIRM nodes and call the back end.

- Augment your compiler with the command line switches `--win32`, `--linux`, and `--mac`. When invoked with any of these switches, e.g. `mjavac --linux cafebabe.java`, your compiler must emit assembly code. The filename for the assembly code *always* is `a.s`. Only the switches above are allowed to write to files.
- Lower your graph and call the back end. To do so, please follow the slide set presented on 2012-01-20.
- Make sure that your graphs satisfy the back end preconditions, which are mentioned in the slide set.

### Project task I. Presentation

Write at least one MiniJava program that demonstrates the capabilities of your compiler. The more language features get used the better: A program that uses virtual function calls and calculates something meaningful is clearly preferred to a “Hello World” program. We will use those programs during your presentation. Commit them into your repository under the path `/demo/[group letter]_*.java`, e.g. `/demo/C_fancy.java`.

The deadline to commit your compiler to be graded will be announced on the mailing list and in the lecture.