Assignment 2

- Find and tell me where the object `runTime` is created, based on `icoFoam` and the `cavity` case. Use the `runTime` object to write out the output of all the public member functions that take no argument, give output that is writable, and is defined in `Time.H`, e.g.:

  ```
  Info << "runTime.rootPath(): " << runTime.rootPath() << endl;
  ```

  You should find a minimum of 11 such functions, but there are more – the more and more advanced, the higher grade (for master students). Include the source code in your hand-in.
- Implement a boundary condition that ramps the fixed value on a patch. Hand in the code and a `gif` movie that proves that it works. Use decriptions at the course homepage.
- Figure out a simpler way to do the same thing as the boundary condition you have just implemented (hint: search!). Tell me how.

Recommended, but not required

- Update the `solidParticleFoam` tutorials, `box` and `solidParticleDamBreak` (`http://openfoamwiki.net/index.php/Contrib_solidParticleFoam`), for version 2.1.x (it was developed for `1.5-dev`). You will run into some error messages that you must understand, and correct the errors. Hand in a description of the modifications that are needed in the tutorials in order to make it work in OpenFOAM-2.1.x.