Term Project

1. On May 7 (Tuesday; 6:30 - 10:00 pm), TA will explain a computer source code in which an immersed boundary (IB) method is implemented for solving the unsteady incompressible Navier-Stokes equations using a fractional step method (RK3 + CN) and a second-order central difference method.

2. TA will also tell you how to solve a flow over an oscillating cylinder as a test problem using the source code.

3. One team for term project can be maximum two persons. Pick up an **interesting** flow problem. This problem should NOT be (or similar to) your research problem, and well-known flow problems such as a flow over a circular cylinder (unless deep physics is involved) will not be much appreciated by your classmates! Note that a team with two members should work twice harder than a team with one member.

4. Submit a two-page abstract by May 27 (Monday, 11pm) containing the motivation and objective, and a brief plan of your term project.

5. Give a five- or seven-minute talk for a team with one or two members, respectively, at the end of class, and submit a final report (the dates will be announced later).