

Midterm Activity:

Checklist of things that a group should be able to demonstrate:

Basic operations:

- Server-side
 - Create accounts
 - Create a repository in the server
- Client-side
 - Access an external repository (from an Ubuntu server virtual machine)
 - Push and/or pull a resource from the repository
 - Update a resource in the repository
 - Delete a resource in the repository
 - View the revisions (history of updates) of a resource
 - Revert to a previous version of an existing resource in the repository

Handling conflicts:

- 2 developers access a source code from the repository and both edits the same file. One of the two developers commits the changes earlier than the other thereby updating the content in the repository. Once the 2nd developer is done editing the file, he/she will try to push the changes but will encounter an error since the file he is trying to commit is not the latest one.
- A developer merges code coming from a different *branch*.

Major consideration:

You are to demonstrate the above operations/situations for Git and SVN. You are to access the repositories thru the console (command line).

Note: For the code base to be used, each member must solve a problem from **www.odeforces.com** (problems 801-850 only). Collate your solutions and place them in a single source file ***Solutions.java***.

Documentation:

Notes:

- Title page containing the names of the members must be indicated arranged according to their assigned number
- A table of contents containing the sections and sub-sections of the submitted document
- Page numbers must therefore be indicated for all pages of your document
- Include screenshots as you see fit

- I. Installation manual
 - A. Ubuntu Server
 - B. Git installation
 - Other programs to be installed to make the Git VCS work
 - C. SVN installation
 - Other programs to be installed to make the Subversion VCS work
- II. User's manual (command instructions)
 - A. Server
 - Setting up a repository in the server
 - Setting up accounts and permissions
 - Obtaining URL of a server's repository
 - B. Client
 - Accessing Git and SVN repositories thru Bash or console (command line)
- III. Issues encountered
 - This part pertains to problems/issues/roadblocks encountered during the setting-up of the Ubuntu server as well as Git and SVN. Concerns regarding the installation of other programs must also be indicated in this section. For each of the items you will be mentioning, provide the solution or actions taken to resolve the situation.
- IV. Appendix
 - Screen grab on the status of your source codes after submission for testing. Problem number must be seen from the image.