```
                            CVS exercises

1. Install cvs

       # apt-get install cvs


2. Init a new CVS ROOT:

       *NOTE* Do this exercise as the normal user, NOT ROOT!!!

       - First, set the environment variable "CVSROOT" to the path
       - Where your CVS repository will be created:

       > CVSROOT=/home/myusername/cvs
       > export CVSROOT

       - Now create the directory

       > mkdir $CVSROOT
       > cvs init

       - Check that it was created correctly!

       > ls -l /home/myusername/cvs

       - You should see a directory called "CVSROOT"

3. Let's create a module for the configs and import configuration files
   to the CVS!


       > mkdir /home/myusername/temp
       > cp /etc/smokeping/config /home/mysername/temp/config.smokeping

       - Now we need to import these files into CVS:
       - Let's make a new module called "configs"

       > cd /home/myusername/temp
       > cvs import configs before_cvs start

       (Note: the "before_cvs" and "start" are just labels to say that
       we are importing from "before we used CVS, and this is the start")

       - When you see this:

CVS: ----------------------------------------------------------------------
CVS: Enter Log.  Lines beginning with `CVS:' are removed automatically
CVS:
CVS: ----------------------------------------------------------------------

       ... just enter a message saying what you did, for example:

       This is a first import of our config files

       ... Then save the file + quit.

       You should see something like this:

File /tmp/cvsh3EOVw saved
N configs/config.smokeping

No conflicts created by this import
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4. Now we can remove our temp directory, and check out the
   configs/ module from CVS!

        > cd /home/myusername
        > rm -rf temp

        - Let's now check out from cvs :

        > cvs -d /home/myusername/cvs co configs

        - You should see something like:

cvs checkout: Updating configs
U configs/config.smokeping

        > ls -l /home/myusername/configs/

        - Notice the CVS directory in /home/myusername/configs/

        NOTE remember, never modify the CVS/ directory by hand!!
        It is only for experienced CVS users...

5. Let's modify the files, add another one, and check things in again:

        > cd /home/mysername/configs
        > vi config.smokeping

        ... add something to it, for example a new configuration for
        a new host, then save and quit.

        - Add the APT sources.list file to the directory:

        > cp /etc/apt/sources.list .

        - Add it to the CVS:

        > cvs add sources.list

        - You should see this:

cvs add: scheduling file `sources.list' for addition
cvs add: use `cvs commit' to add this file permanently

        - You are now ready to commit!

        > cvs commit

        - If all goes well, you should have this in your editor window:

CVS: --
CVS: Enter Log. Lines beginning with `CVS:' are removed automatically
CVS:
CVS: Committing in .
CVS:
CVS: Modified Files:
CVS: config.smokeping
CVS: Added Files:
CVS: sources.list
CVS: --

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      ... add a message:

      Importing APT sources.list, and modifying smokeping config

      ... then save + quit

      You should see this:

File /tmp/cvs3CyXND saved
/home/inst/cvs/configs/config.smokeping,v  <--  config.smokeping
new revision: 1.2; previous revision: 1.1
/home/inst/cvs/configs/sources.list,v  <--  sources.list
initial revision: 1.1


6. Let's see the history for the config.smokeping file:

      > cvs log config.smokeping

      ... notice the output

      - Finally, let's try and see the difference between two
        versions of the config.smokeping file:

      > cvs -d diff -r 1.1 -r 1.2 config.smokeping

      - What do you notice ?
```