Bonus Assignment #1
(or equavalently, Programming Assignment #0)

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Submit and Autotest Trying Out

if this is the first time that you login your Unix/Linux account, do the following (never need to do it again afterward) to protect your intellectual property:

```
$ cd
$ cd ..
$ ls –l | grep <yourLoginName>
Lrwxrwxrwx.  1  root  root  <date  time>  <yourLoginName>  ->
/DCNFS/user/student/<yourLoginName>/
```

if output is a link as above, then cd to the link, otherwise skip to the next if:

```
$ cd /DCNFS/user/student/
$ ls –l | grep <yourLoginName>
drwx------. 1 root root <date_time> <yourLoginName>
```

if output is not begin with drwx------, then do the following:

```
$ chmod 700 <yourLoginName>
```

These are the steps to submit your program using perl scripts:

1. Get Perl scripts by soft link and copy the whole P0 (watch the uppercase P) directory to your home directory. If you took any of mine classes before, you need to remove Submit and Autotest, and redo the soft links again:

   ```
   $ cd
   $ ln -s /home/m1wang/bin/Submit<courseDigits> Submit
   $ ln -s /home/m1wang/bin/Autotest<courseDigits> Autotest
   $ cp -r ~m1wang/P0 .
   $ cd P0
   ```

2. Choose one and only one of the following languages, and put your personal information in the source file:

   a) if you program in C/C++, do:
   ```
   $ rm *.java Makefile_Java P0.go
   $ mv Makefile_C Makefile
   ```
   edit the info.cpp file

   b) if you program in Java, do:
   ```
   $ rm *.cpp *.hpp Makefile_C P0.go
   $ mv Makefile_Java Makefile
   ```
   edit P0.java

   c) if you program in Go, do:
   ```
   $ rm .java Makefile* *.cpp *.hpp
   ```
   edit P0.go

NOTE: You must change ALL my information to yours before go to next step, I need your name and ID to activate your password for accessing solutions under password protected area on my website. Since your school account will expire after you graduated, please also share me your personal email account.

NOTE: Starting 2024, IT security team requested your P0 directory should only contain text files, no scripting files, no subdirectories, no binary files, and no zip files. Otherwise, the system will drop your submission email quietly.

NOTE: Your Makefile must have a "clean" target which removes all object, core, executable, binary, and script files to save bandwidth and to prevent trigger security concerns.

3. Trial submission to yourself:
   ```
   $ cd
   $ perl Submit <yourLoginName> /home/<yourLoginName>/P0
   ```
   You can use relative path instead of absolute at end of command above, and if you set the perl path correctly, then you don't need the perl:
   ```
   $ ./Submit <yourLoginName> P0
   ```
   If you set $PATH environment variable correctly, you can simply do:
   ```
   $ Submit <yourLoginName> P0
   ```
   The following steps are for graders only, so you can go to step 4 directly.
   ```
   $ cd ~/AutoTestDir/<yourLoginName>
   $ Mail
   ```
   save your mail as P0.m (or save the P0.tar.gz if you read email from Window) and exit email, then

4. Run Autotest:
   ```
   $ cd
   $ perl Autotest 0
   ```

5. Check output correctness:
   ```
   $ cat AutoTestDir/<yourLoginName>/out
   ```
   if you see succeed, go on, else debug by repeat step 2 to step 5

6. Formal submission:
   ```
   $ perl Submit P0
   ```

7. Upload your source code and optionally with a README file to Camino.

If you take more than one classes from me at the same quarter, then you can make two or more subdirectories under your home directory, make those two soft-links under subdirectories, and do Submit/Autotest under those subdirectories.

The idea of Submit is that you must first submit to yourself and then using Autotest to see if everything works. After you make sure everything is fine, do a formal submit. If you need change the program just after a submission, you better wait for long enough (about 15 minutes) and then do another submission. This is because the arriving order of two emails sent out about the same time is nondeterministic, i.e., the first one may arrive after the second. Thus, if your first submission is wrong but the second is correct, and I received the second first and the first second, I'll delete the first one (which is your correct one.)