

**NATIONAL UNIVERSITY OF SINGAPORE  
SCHOOL OF COMPUTING**

Practical Examination for Semester 1, AY2008/9  
**CS1101 — Programming Methodology**

8 November 2008

Time Allowed: 3 hours

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**INSTRUCTION TO CANDIDATES**

1. This is an **OPEN book** examination. You are allowed to bring to the lab hard copies of notes and books. However, you are **NOT** allowed to bring into the lab digital/communication devices (such as laptop, cell phone, PDA, etc.) and storage devices (hard disk, thumb drive, CD, etc.). **There are 2 exercises in 10 printed pages.** The marking scheme for each task is as given – you should exercise the usual good programming practices (comments, proper indentation, meaningful naming convention, good design of classes etc.).
2. **Login to PC.** Please use the given ID (**cs1101**) and password (**to be revealed on PE day**) to log into your assigned PC with domain as **Computing**. Your NUSNET id will not be used as there is no connection to NUSNET. The PC comes with our recommended IDE **DrJava**. Java **manuals** are available on your desktop. We will not provide software/editor that are not already in the PC and we do not guarantee the availability of such software/editor. Please login to the CourseMarker (see paragraph 3) before invoking DrJava.
3. **Login to CourseMarker.** Click on the CourseMarker shortcut **c:\cm\cs1101pe.bat** to log into the CourseMarker. Please use the **newly assigned password** (given to you just before the practical exam) to perform the login. Once you have gained access to the CourseMarker, please click on the setup button to download the necessary files and some dummy files – please **do not** delete any of these files though you are not using them in your programming, you need them when submitting your work to the CourseMarker. With this, you are ready to start programming.
4. **Working Directory.** Please create your files in the directory **“c:\Documents and Settings\cs1101\My Documents\CMhome\studentArea\yourID\exerciseDIR”** (where **yourID** is your CourseMarker login id and **exerciseDIR** is cs1101labPEex1, cs1101labPEex2) with the specified file names as stated in the questions. Only the **specified files** in the **specified directory** will be submitted to the CourseMarker when you click on the submit button of the CourseMarker client.
5. **Submission.** You are given **100** submissions. Note that unlike your lab, CourseMarker **does not** provide instant feedback for the PE. Only the **last version** will be graded. Note once again that the system **only** submits files of the specified filenames in the specified directory – all other files will not be captured by the CourseMarker. Please ensure you have submitted your work before the end of the examination – to avoid unnecessary stress to yourself, you should not wait till the very last minute of the exam to submit the work at the same time as many other students. The CourseMarker system will be closed shortly after the practical examination.
6. **Leaving the lab.** Please **log out** from the PC before you leave the lab. But please **DO NOT SHUT DOWN THE MACHINE.**
7. **No Communication.** You are NOT to communicate in any way (sharing of files, PCs, calculators, send emails, receive emails, use of ICQ, etc.) with anyone, other than the invigilators, during the practical examination. You must allow the invigilator access to your PC on request.
8. **Matriculation card.** Please put your matriculation card on the desk.

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**ALL THE BEST!**

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**CS1101 AY2008/9 Semester 1  
Practical Exam (PE)**

**Important notes**

- This is an **Open-Book** examination.
- Time allowed: **3 hours**.
- There are **2** exercises in this PE. Exercise A constitutes 30%; Exercise B constitutes 70%.
- You are advised to spend some time thinking over the tasks to design your algorithms, instead of writing the programs right away.
- Manage your time well! Do not spend excessive time on any exercise or sub-task.
- Remember to submit your programs!

**Please do not read the question until you are told to do so.**