

CS2103/T Mock Exam (Model Answers)

! You are strongly encouraged to attempt this exam via **Exemplify** at least once before looking at these model answers. The password for the exam is `hello123`.

This file is provided to you for convenience, because Exemplify exam performance report (that you can access via <https://examsoft.com>) does not show images or give answers for short-answer questions.

○ [m1] requirements: NFR

- ? Consider the following requirements for a Learning Management System such as Canvas:
- Which one is **most** likely to be a *functional requirement* (as opposed to a *non-functional requirement*)? ____
- Propose a potential non-functional requirement that is related to the answer you chose: ____

A1:

- ☐ The software should be able to support concurrent access by up to 1000 students at a time.
- ☐ The software must be usable using all popular Web browsers.
- ☒ The software must allow students to upload files.
- ☐ The software must keep all uploaded files secure from unauthorized access.
- ☐ The software must be open-source.

A2: Files bigger than 10MB should not be allowed.

☐ [m2] UML: CD to OD

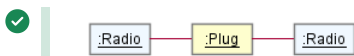
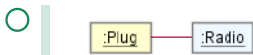
? Consider this class diagram:



Which object diagram does **not** match the given class diagram? ____

Why doesn't it match?: ____

A1:



A2: One Plug object cannot have more than one Radio objects

☐ [m3] code quality: coding standard compliance

? **[Select all that apply]** Which lines in the following code have **coding standard violations** (as per the coding standard used in the module)?

You may ignore any violations related to code comments or spacing around operators.

```
1 public void read_lines() {  
2     int FILE_SIZE = 0;  
3     for (int i = 0; i < 10; i++) {  
4         read("reading " + FILE_SIZE); // read  
5     }  
6 }
```

☒ 1

☒ 2

☐ 3

☐ 4

☐ 5

☐ 6

i Examiner note: Redundant comment in line 4 is a code quality problem but not a coding standard violation. Same for the magic number in line 3.