CS2102, B15

Exam 2

Name:

You have 50 minutes to complete the problems on the following pages. There should be sufficient space provided for your answers.

If a problem asks you to create an interface, you should provide a complete interface, including method headers and argument types.

If a problem asks you to create a class:

- Include **implements**, **extends**, and **throws** statements as appropriate
- Include field names and types
- Omit constructors
- Omit methods unless a problem asks otherwise

Omit the `Examples` class (examples of data and test cases) unless a question asks otherwise.

If a problem needs you to give an example of a data structure (like a list, graph, or hashmap), you do **NOT** need to write these in full code (even in a test case). You may use reasonable abbreviations such as

- a picture for a graph
- `List[2,3]` for a list of numbers
- `HM[``Kathi'' -> 5118, ``Chris'' -> 5776]` for a hashmap from names to extensions

If a problem asks you to *specify* a data structure, provide the type of content as well as the name of the data structure (for example, a `LinkedList<String>`, a `HashMap<String,Dillo>`, a graph with People as nodes). You may indicate the content types either in code or in prose.

If a problem asks you to *evaluate* whether a data structure is a good choice for a problem, your answer should give us evidence that you understand the data structure (its traits, benefits, limitations, etc). Don't just say yes or no.