

CSCI2600 Quiz6

Aaron Taylor

TOTAL POINTS

9 / 10

QUESTION 1

1 Question 1 & 2 **9 / 10**

- **0** Correct
- **2** Question 1 part 1
- **1** **Question 1 part 1 partially correct**
- **2** Question 1 part 2
- **2** Question 1 part 3
- **1** Question 1 part 3 partially correct
- **2** Question 1 part 4
- **1** Question 1 part 4 partially correct
- **2** Question 2

For Question 1
Part 1: A<X>, A<Z>

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YOUR RCS ID: tayla5@rpi.edu

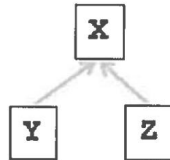
Your RCS ID is the first part of your RPI e-mail address

Principles of Software Quiz 6

April 13, 2017

10 points total

Question 1. (8 points) Given this hierarchy with classes X, Y, and Z:



What are valid instantiations of generics

class A <T extends X >{} ?

A <Y> A <X>

class A <T extends Z >{} ?

A <Z>

class A <T super Z >{} ?

A <Z>, A <X>, A <Object>

class A <T super X >{} ?

A <X>, A <Object>

Question 2. (2pts) What is premature optimization? Why is it a problem?

Give an explanation in a few concise sentences.

- Optimizing before you have all the information.
- ~~It will possibly lead to increased complexity^{and} increases in bugs, and neg.~~ When you ~~worry~~ about small variables like CPU cycles, you fail to implement good algorithms.
- ~~and~~ - It could lead to more complex code and bugs. When you ~~worry~~ ^{worry} ~~concern~~ about micro optimization you fail to think about your algorithm design on a larger scale.