Name _____

Student number _____

SE 2AA4 Winter 2007

Quiz 6 Answer Key

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You have 10 minutes to complete this quiz consisting of 2 pages and 4 questions. You may *not* use your notes and textbooks, nor may you use any calculators or other electronic devices. Circle the *best* answer for the multiple choice questions, and write the answer in the space provided for the other questions. Good luck!

(1) [4 pts.] Java source code is normally

    (a) Interpreted.

    (b) Compiled into machine code and then executed.

    (c) Compiled into byte code and then interpreted.

    (d) Compiled into byte code, then compiled into machine code, and finally executed.

(2) [4 pts.] A Java class is

    (a) An object.

    (b) A reference type.

    (c) An object specification.

    (d) All of the above.

(3) [4 pts.] Write a piece of Java code that declares a constant named `TWO` whose type is `int` and whose value is 2. Assume that the code will be put into a class definition.

Answer:

```
public static final int TWO = 2;
```


(4) [8 pts.] Describe two of the four shortcomings of the `examples.stack1` example presented in class. This example implemented a stack data structure in Java as an array.

Answer:

1. Only elments of type `int` can be put on the stack.

2. At most 1000 elements can be put on the stack.

3. There is only one stack.

4. No exception is raised when the method `top` or `pop` is applied to an empty stack.