Review for Final

Format of final:
1. Q&A, 21%
2. Program understanding (value of variable or screenshot), 28%
3. Programming, 51%

Resources:

IO_xx: http://www.cis.temple.edu/~jiang/cis1068a.ppt
Decision_xx: http://www.cis.temple.edu/~jiang/cis1068b.ppt
Loop_xx: http://www.cis.temple.edu/~jiang/cis1068c.ppt
Array_xx: http://www.cis.temple.edu/~jiang/cis1068d.ppt
String_xx: http://www.cis.temple.edu/~jiang/cis1068e.ppt
Object_xx: http://www.cis.temple.edu/~jiang/cis1068g.ppt
Method_xx: http://www.cis.temple.edu/~jiang/cis1068h.ppt
Attribute_xx: http://www.cis.temple.edu/~jiang/cis1068i.ppt
Search_xx: http://www.cis.temple.edu/~jiang/cis1068j.ppt
Sort_xx: http://www.cis.temple.edu/~jiang/cis1068k.ppt
Inheritance_xx: http://www.cis.temple.edu/~jiang/cis1068m.ppt

Topics:
1. P277, P422: Method signature (Method_9), and call (Method_10-14)
2. P291: Parameter (Method_31), and call (Method_32-40)
3. P339-345: Object and array to return the change back to caller (Method_49-51, midterm2_1.b&1.c)
4. P277: Single value return, including void (Method_58-59)
5. P296-298, P390-400: Static method (Method_18-25, Method_60-66, midterm2_Part2), instance method (Attribute_25,29, Quiz-7:Adder&compareTo, Midterm2_part3).
6. P282-283: This
7. P589: Super (Inheritance_25)
8. P389-390: Instance and static variable (public, static, final, etc., Attribute_5,44,45).
9. P375-377, P384: Constructor, a special instance method (no return, public, class name, Attribute_14-15, Quiz7: Adder, Midterm2_Month) and related call at initialization (unknown, null, new, overloading, etc., Object_8,12, Homework10)
10. P296-298: Private and public modifier (Attribute_5, Inheritance_48-51)
11. P578-579: inheritance programming (Inheritance_14,21,33, Object_19)
12. P606-607: Polymorphism programming (Inheritance_38-41, 46)
13. P636-638: Abstract class (at least one abstract method) and Interface (all are abstract)
14. P302-305: Accessor and mutator (Attribute_9)
15. P420-426: Overloading (Attribute_40-43)
16. P582: Overriding (Inheritance_14-15)
17. String & char (Character.isLetter, Character.isDigit, charAt, length, substring, indexOf, String_7,14)

18. ToString (Attribute_32-35, midterm2_part3, Homework10_ArrayOperation.java)
19. Array (initialization, Array_5,6, 9-12, 27,28), e.g., min, max, avg, total, etc.
20. P541: Array linear search (also called sequential search) and binary search (Search_11,15, Homework 11)
21. Insertion sort (Sorting_8, homework 11)
22. Loop: problems (Loop_25-31, 41-47, 70-75) with method (quiz 5, midterm2_part1).
23. P151: Truth table and decision making (Decision_10,14,19,27,29,31).
24. P52: I/O (IO_9,14,17, 42), primitive data type (byte, char, int, long, double, Boolean), and arithmetic operations (IO_46, 51,62)