## 2018 A Exam Answers Barb Ericson Georgia Tech

- 1 E logic and conditionals
- 2 D inheritance and overriding and what is returned Student and GradStudent
- 3 B 1-d arrays and prog fund
- 4 C list processing
- 5 A constructors and inheritance Car and ElectricCar and constructors
- 6 E oo concepts passing parameters and subclasses
- 7 B complex conditional, logic, and DeMorgans
- 8 A selection sort with missing code
- 9 B pick code that outputs values nested for loops
- 10 A –nested loop and minimum number of times it will execute
- 11 D OO concepts which will compile inheritance and compile-time type
- 12 C 2D array media comp inspired
- 13 D tracing a while loop
- 14 B recursion / and %
- 15 C OO inheritance hierarchy
- 16 A insertion sort and tracing how it changes the array
- 17 C binary, decimal, hex, octal, 123 10 = 113 + 5 = 118 + 13 = 131
- 18 B recursion with strings and substring
- 19 C general for loop and prog fund
- 20 D OO constructors
- 21 D OO interfaces is this still valid with Java 8?
- 22 A pass by value and array reference and conditional
- 23 B string, for loop, and substring
- 24 E 2d array and nested loops
- 25 B OO concepts var declarations and interfaces
- 26 D nested loop counts of execution
- 27 E binary search tracing the result and returning the index of the target value
- 28 E for loop and prog fund and tracing
- 29 A recursion power of 3
- 30 C OO concepts super and which method is called on a child object
- 31 B selection sort
- 32 E loop may not execute and thus no return so code will not compile
- 33 A strings and equals vs ==
- 34 C strings and substrings
- 35 E recursion and strings and substrings with an error in the base case
- 36 E OO polymorphism
- 37 D sorting
- 38 B complex conditional
- 39 B two-dimensional array and a loop
- 40 A conditionals prog fund

## Java Visualizer URL to help you understand the answer

- 1. https://goo.gl/pKD6jM
- 2. https://goo.gl/4HHzRX
- 3. https://goo.gl/PR6Vri
- 4. https://goo.gl/NEhcGV
- 5. <a href="https://goo.gl/47Ca4K">https://goo.gl/47Ca4K</a>
- 6. https://goo.gl/wEwh9L
- 7. <a href="https://goo.gl/38fEgt">https://goo.gl/38fEgt</a>
- 8. https://goo.gl/vGzXqJ
- 9. https://goo.gl/8tdSaM
- 10. https://goo.gl/jMzXaQ
- 11. https://goo.gl/rQXibm
- 12. https://goo.gl/iJR8T9
- 13. https://goo.gl/bYDkYm
- 14. https://goo.gl/CcDsRk
- 15. none
- 16. https://goo.gl/jrvPfv
- 17. none
- 18. https://goo.gl/aNnhZY
- 19. https://goo.gl/uN6bJW
- 20. https://goo.gl/XcmjRW
- 21. none
- 22. https://goo.gl/UTsq3w
- 23. https://goo.gl/oVVpg8
- 24. https://goo.gl/a4UJVB
- 25. https://goo.gl/g3gR9O
- 26. https://goo.gl/VzqZCE
- 27. https://goo.gl/SX5SsJ
- 28. https://goo.gl/SHbWH8
- 29. https://goo.gl/XKtBUL
- 30. https://goo.gl/nQ5s8X
- 31. https://goo.gl/6RjbCs
- 32. https://goo.gl/a1STmX
- 33. https://goo.gl/XrHY87
- 34. https://goo.gl/adjHGQ
- 35. https://goo.gl/RDHrVv
- 36. https://goo.gl/hWUWT6
- 37. none
- 38. https://goo.gl/1AvXRW
- 39. https://goo.gl/BAPvQ5
- 40. https://goo.gl/yyQ6Sx