

Chapter 7 Homework

Multiple Choice

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|------|-------|-------|
| 1. B | 6. C | 11. C |
| 2. A | 7. B | 12. C |
| 3. B | 8. A | 13. A |
| 4. D | 9. B | 14. A |
| 5. C | 10. A | |

True and False

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|-----------|-----------|-----------|
| 15. True | 19. True | 23. False |
| 16. False | 20. True | 24. True |
| 17. True | 21. True | |
| 18. True | 22. False | |

Find the Error

2. `int[] hours = { 8, 12, 16 };`

Algorithm Workbench

2. `for (int i = 0; i < numberArray1.length; ++i)
 numberArray2[i] = numberArray1[i];`

Short Answer

1. A size declarator tells Java the size that the array will be when it is declared, while a subscript is used to access an element in an array.
2. `int[] values = new int[10];`
 - a. 10
 - b. 0
 - c. 9
3. `int[] values = { 4, 7, 6, 8, 2 };`
 - a. 2
 - b. 14
 - c. 8
4. You can instantiate the array in the declaration with braces and a comma separated list of elements, or use `ArrayList` or a similar list class for a more flexible list.
5. `array1` and `array2` both reference the same data in memory.
6. I see nothing wrong with the statements.