

Answers and Solutions

SECTION I: MULTIPLE CHOICE

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|-------|-------|-------|-------|
| 1. B | 11. D | 21. B | 31. D |
| 2. C | 12. C | 22. B | 32. C |
| 3. A | 13. C | 23. D | 33. E |
| 4. B | 14. A | 24. D | 34. E |
| 5. E | 15. D | 25. B | 35. B |
| 6. E | 16. E | 26. A | 36. C |
| 7. D | 17. B | 27. E | 37. B |
| 8. C | 18. A | 28. B | 38. A |
| 9. A | 19. C | 29. D | 39. D |
| 10. E | 20. A | 30. D | 40. A |

Notes:

- Use De Morgan's Laws.
- $(-1 + 2) + (-3 + 4) + (-5 + 6) + (-7 + 8) + (-9 + 10) = 5$
- `count++` is missing.
- Short-circuit evaluation.
- `4 / 3` yields 1
- `filter` makes a new string from `str` with all the occurrences of `pattern` in `str` removed.
- `s` is not an array (A); `amps` is private in `Sample` (B, C); and `Sample` has no public field `length` (E).
- `numbers` holds two elements: two copies of an `Integer` with value 1. The element at index 1 is deleted twice from `names`.
- The signatures of both `tuneTo` methods in `MyTV` are different from the one in the `TV` interface.
- References to objects are passed "by value" (that is, `swap` receives copies of addresses of `a` and `b`), so `I` does not work.
- "Dynamic method binding" is a technique that implements polymorphism. The MBS narrative prefers this term.
- `msg[0]` is not initialized (`null`); you can't call its methods.
- `BoxBug` has only one constructor and it takes an `int` parameter.
- `Actor` doesn't have a method `setGrid`.