

Answer Key

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|--------------|--------------|--------------|--------------|
| 1. A | 16. B | 31. A | 46. C |
| 2. C | 17. A | 32. C | 47. B |
| 3. A | 18. D | 33. A | 48. C |
| 4. D | 19. A | 34. C | 49. A |
| 5. B | 20. C | 35. D | 50. D |
| 6. B | 21. A | 36. C | 51. C |
| 7. D | 22. A | 37. A | 52. D |
| 8. C | 23. D | 38. D | 53. D |
| 9. C | 24. B | 39. B | 54. A |
| 10. B | 25. C | 40. C | 55. C |
| 11. D | 26. A | 41. B | 56. D |
| 12. C | 27. D | 42. B | 57. B |
| 13. C | 28. A | 43. A | 58. A |
| 14. B | 29. C | 44. C | |
| 15. B | 30. B | 45. D | |

Answers Explained

1. **(A)** When tracing an algorithm, using a trace table makes keeping track of your variables easier. Notice the display is c , then a , and then b . Don't assume the order is always a , b , c . Always evaluate the right-hand side of the equation first, and then set the value to the variable on the left.

a	b	c	Output
13	17	2	2 14 17
14			

2. **(C)** When tracing an algorithm, using a trace table makes keeping track of your variables easier. Although a was initially set to 13, it is overwritten in the second line, setting a equal to 17. In the third line, 1 is added to a , setting it equal to 18.

a	Output
13	18
17	
18	