## CHAPTER 1

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [1]T | R | A | C | T | A | B | L | E | A | L | G | O | R | I | T | H | M | S | | | | | | |
| I | | | | | | | | | | | | | | | | | | | | | | | [2]C | |
| M | | | | [3]A | | | | | | | | | | | | | | | | | | | O | |
| E | | | | L | | [4]R | E | C | U | R | S | I | V | E | [5]A | L | G | O | R | I | T | H | M | S |
| C | | | | G | | | | | | | | | | | L | | | | | | | | P | |
| O | | | [6]D | O | N | A | L | D | K | N | U | T | H | | G | | | | | | | | L | |
| M | | | | R | | | | | | | | | | [7]M | O | D | E | L | | | | | E | |
| [8]P | R | O | F | I | L | I | N | G | | | | | | | R | | | | | | | | X | |
| L | | | | T | | | | | [9]D | | | [10]V | A | L | I | D | A | T | I | O | N | | I | |
| E | | | | H | | | | | E | | | | | | S | | | | | | | | T | |
| X | | [11]C | O | M | P | U | T | A | B | I | L | I | T | Y | T | H | E | O | R | Y | | | Y | |
| I | | | | | | | | | U | | | | | | | | | | | | | | T | |
| T | | | | | | | | | G | | | | | | | | | | | | | | H | |
| Y | | | | | | | | | G | | | | | | | | | | | | | | E | |
| | [12]C | O | M | P | U | T | A | T | I | O | N | A | L | T | H | I | N | K | I | N | G | | O | |
| | | | | | | | | | N | | | | | | | | | | | | | | R | |
| [13]A | L | A | N | T | U | R | I | N | G | | | | | | | | | | | | | | Y | |

**Across**

1. Algorithms that are solved within reasonable amount of computable resources [TRACTABLEALGORITHMS]
4. Algorithms that use recursive functions [RECURSIVEALGORITHMS]
6. Who coined the word algorithm analysis [DONALDKNUTH]
7. An abstraction of a real world problem [MODEL]
8. Statistical process of measuring resources on a larger dataset [PROFILING]
10. Process of checking algorithms [VALIDATION]
11. Theory of algorithms [COMPUTABILITYTHEORY]
12. Analytical skills [COMPUTATIONALTHINKING]
13. Attributed as Father of Modern Computing by many [ALANTURING]

**Down**

1. Measurement of time [TIMECOMPLEXITY]
2. Study of analysis of algorithms [COMPLEXITYTHEORY]
3. A step-by-step procedure [ALGORITHM]
5. A person skilled in algorithms [ALGORIST]
9. Process of removing syntax errors [DEBUGGING]

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