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Computer Science & Programming

LEVEL 1

1.2 Computer Science Fundamentals


Wrap your mind around computational thinking, from everyday tasks to algorithms.

14 Lessons





Tools of Computer Science

- ✓ Making Decisions
- ✓ Searching for Solutions
- ✓ Parallelism




Computational Problem Solving




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Computational Problem Solving


- ✓ Resource Tradeoffs
- ✓ Order and Search
- ✓ Naming
- ✓ Abstraction
- ✓ Interfaces

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Algorithmic Thinking

- ✓ Algorithms and Implementations
- ✓ Divide and Conquer
- ✓ Binary Search



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Divide and Conquer



Binary Search



Thinking with Graphs



Representing Games and Puzzles



Graph Search