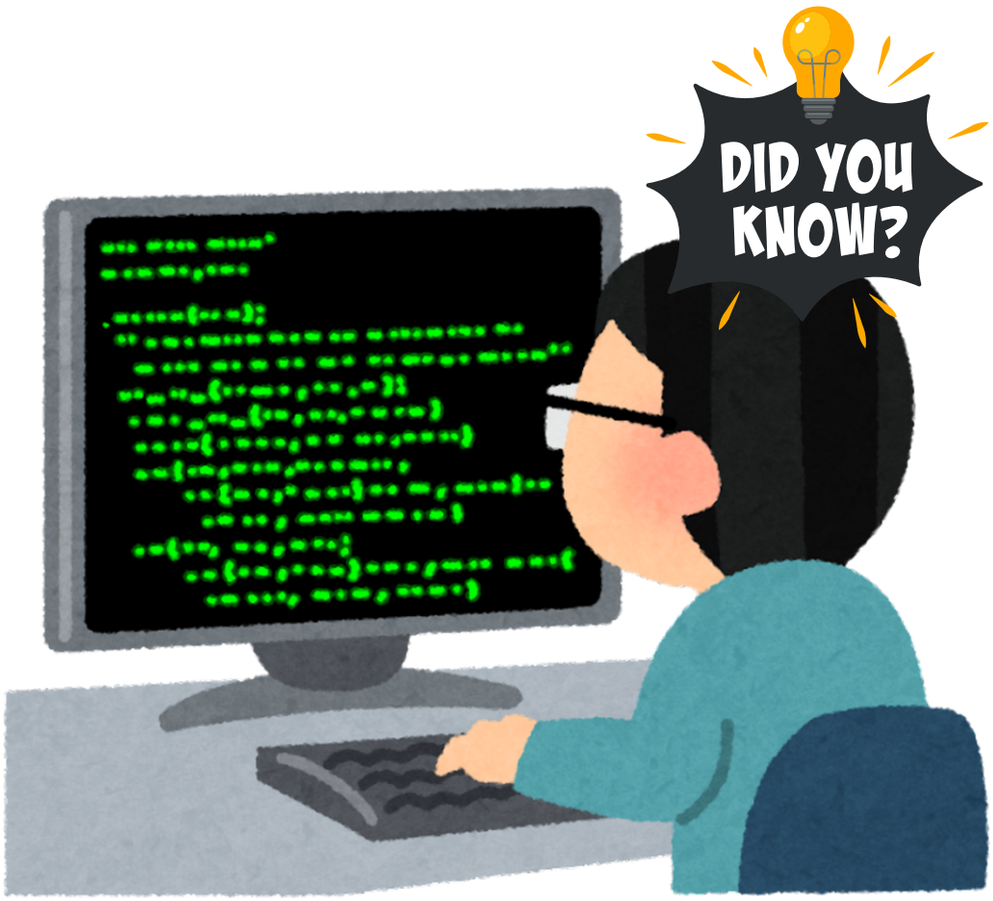
AlgoTutor

PROGRAMMERS MUST KNOW



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Binary Search
Quickly find a value in a sorted array.

Selection Sort
Selects the smallest element and swaps it to the front.

Bellman-Ford Algorithm
Computes shortest paths with negative edge weights allowed.

Kruskal's Algorithm
Finds minimum spanning tree for a graph using disjoint sets.

Merge Sort
Efficient, stable sorting via divide-and-conquer.

Heap Sort
Sorts using a binary heap data structure.

Floyd-Warshall Algorithm
Finds shortest paths between all pairs of vertices.

Hashing Algorithm
Converts data of arbitrary size to a fixed size

Quick Sort
Fast sorting with average-case O(n log n) complexity.

Depth-First Search (DFS)
Traverse deep in each branch before backtracking.

Knapsack Problem
Maximizes value within a weight limit (dynamic programming).

RSA Algorithm
A public-key cryptographic algorithm for secure data transmission

Bubble Sort
Simple sorting by repeatedly swapping adjacent elements.

Kadane's Algorithm
Finds the maximum sum contiguous subarray.

KMP Algorithm
Efficient substring search in a string.

Breadth-First Search (BFS)
Traverse all neighbors at the current depth first.

Insertion Sort
Builds the final sorted array one item at a time.

Dijkstra's Algorithm
Finds shortest paths from a single source in a
graph.

Prim's Algorithm
Efficient minimum spanning tree for a connected graph.

Boyer-Moore Majority Vote Algorithm
Finds the majority element in an array.