Duta Structures + A lydrikhms - Programs
instructions for computer
ways for store duta ways findings to use
duta structures to write programs

Find the hest Data structures & Algorithms for a specific task to write great programs

Good code is:

1) Readable - Clean code that is maintainable

Speed (CPU)

2) Scalable < Memory (RAM)

Some solutions have a tradeoff between speed & memory

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Sacrificing speed for memory & vice - versa

When a program executes it has 2 ways it uses memory.

1) Heap, where we store voriables

2) Stack, where we keep track of function (alls

Examples of Good Design.

Instead of Keeping data in an array where we need to lookup properties we could instead propagate data into a Hashmap to optimize an o(n) time > o(1) time

It's important to keep Big o in mind when writing code

Each O.S. is optimal to its specific usc - each hos its own advantage (drawbacks - each are Just different variations of how to stare data