

Binus International University

Project Proposal

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Algorithm Design & Analysis

OVENIOW.

Background

Proposed Solution

Problem

- The Flow
- ★ To Be Measured
- Resources

Algorithm Design & Analysis

Background

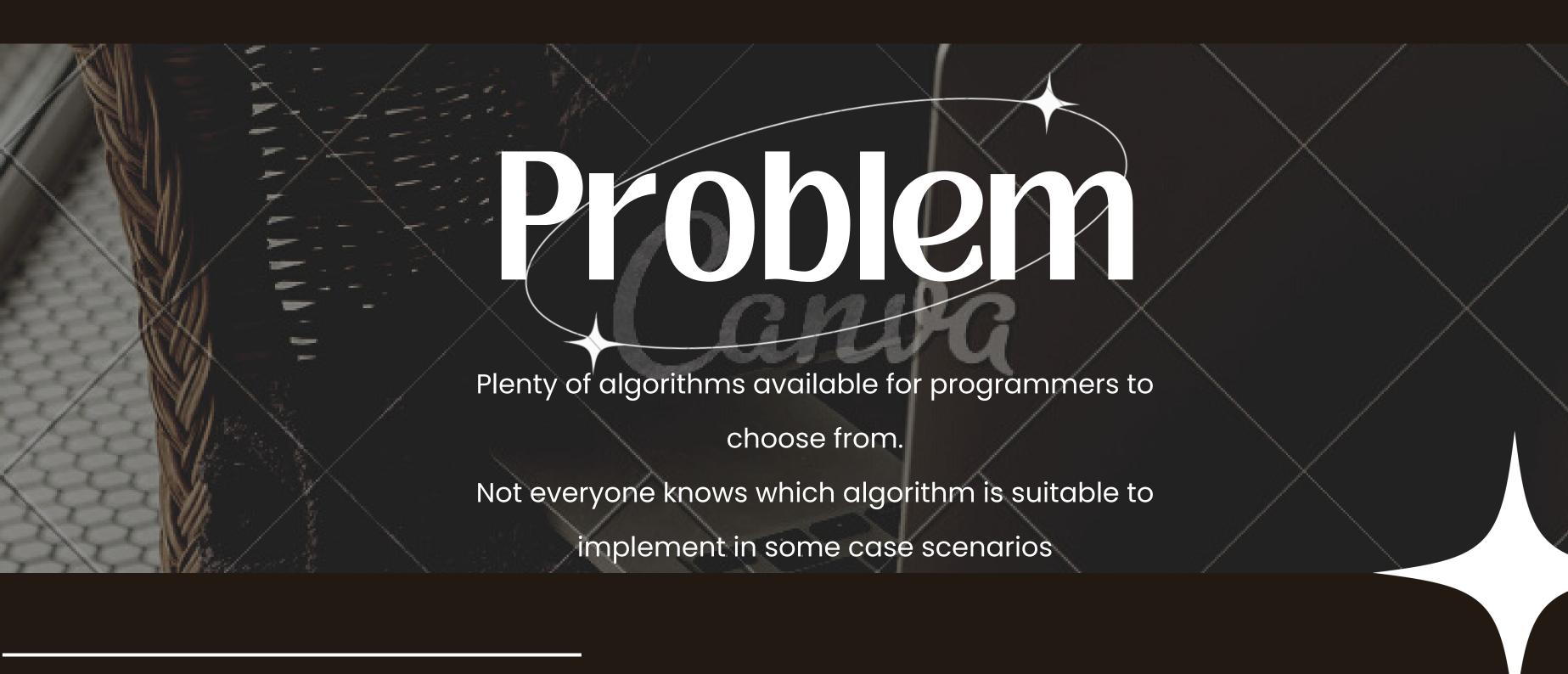
Topic

Comparison between Greedy, Divide & Conquer and Dynamic Programming

What is an algorithm?

A sequence of finite steps to solve a particular problem.





Measure

Runtime

Take in and measure the runtine for each algorithm at different input sizes and input type

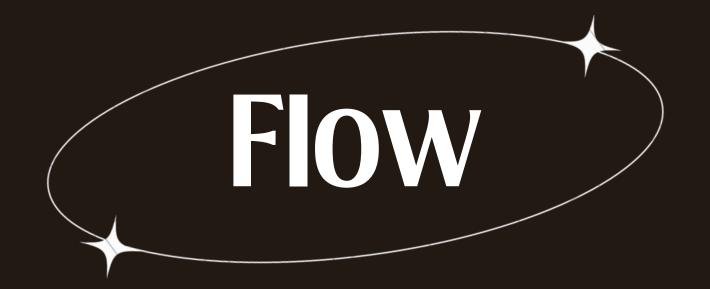
Memory

Take memory measurements of code with different kinds of inputs and different sizes of input



Solution

We propose to compare three different algorithms and have it coded using C++. By using three different algorithms and comparing them in three different cases, we hope to finally reach a conclusion and have a better understanding on when to apply certain algorithms in the future.



Phase 1

Prepare the code algorithm.

Phase 2

Measure the time and space complexity.

Phase 3

Comparison between memory, time, code simplicity

Phase 4

Identifying pros and cons of each algorithm

Phase 5

Identifying real life samples of when such algorithm is used

Phase 6

We conclude which is the best situation and worst situation where the algorithm is applied.

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