Analysis of LeetCode Problems

Chenze Chen
IST 421 - Information Visualization

STORY

One LeetCode problem a day keeps unemployment away. The data visualization found that some specific topics/tags on this platform need more programmers' time and effort to study and master to have a higher chance of passing technical interviews during a short preparation time frame.

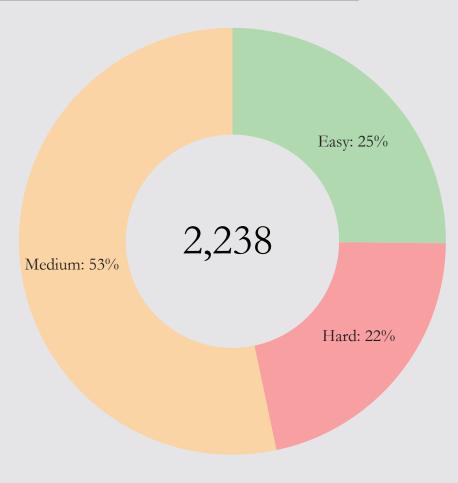
MOTIVATION

This information visualization is helpful to anyone who wants to practice their programming skills by solving coding questions on LeetCode. It provides an overview of 2,000+ LeetCode problems and points out the most critical questions and programming concepts for technical interviews.

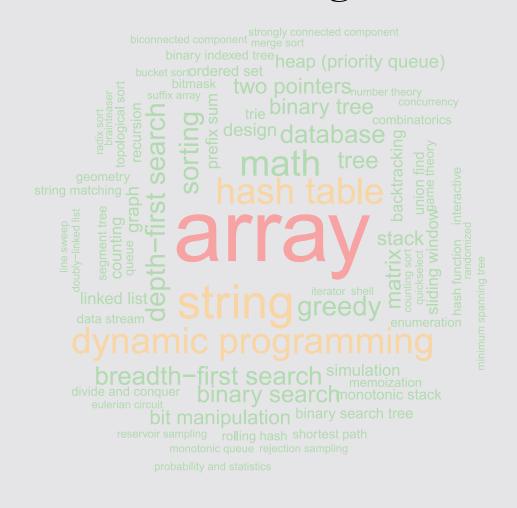
DATA DESCRIPTION

This LeetCode Problems dataset was updated in April 2022 with 2,238 rows and 14 columns. Each row contains a unique LeetCode question and metadata, including question text, difficulty level, tagged topics, etc. The variable data types are character, numeric, and integer.

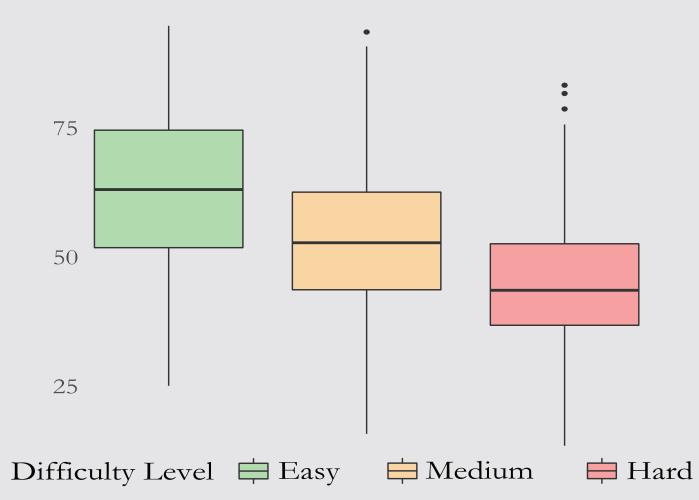
Number of Problems



Data Structure/Algorithm Tags



Problem Success Rates



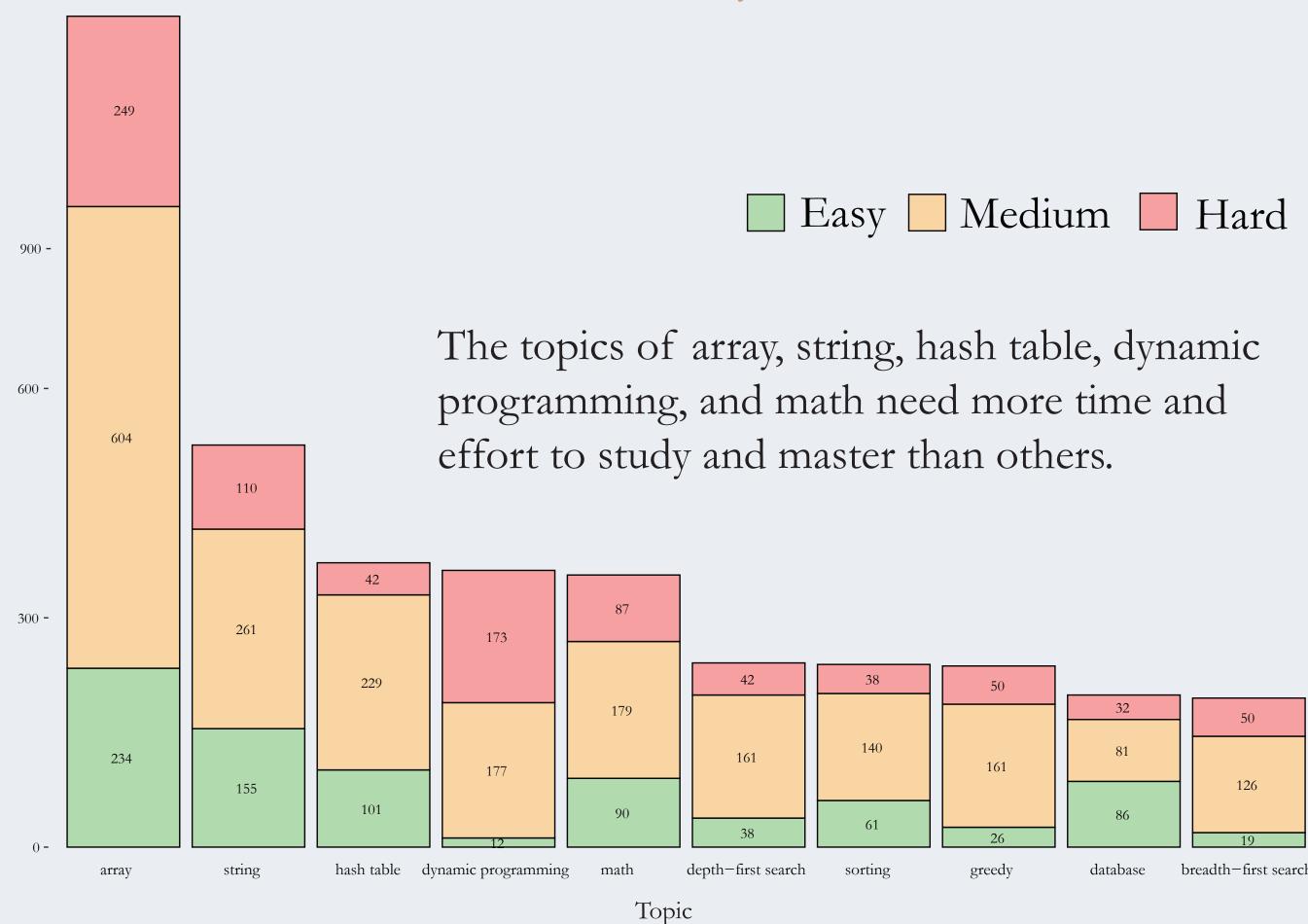
Top 10 Most-Liked Problems



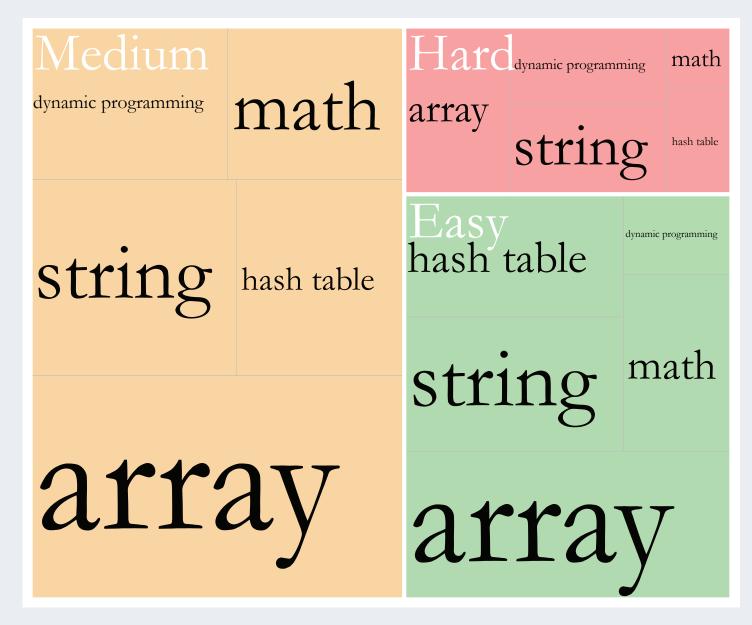
KEY QUESTION:

which topics/tags need much more attention and time than others to study and practice?

Total Questions From Top 10 Leading Topics on Leetcode at Each Difficulty Level



Hierarchical Data of Problem Solution Submissions From Most Popular Tags on Leetcode at Each Difficulty Level



Additionally, it's important to practice more medium-level problems as they have the highest solution submission proportion among difficulty levels.