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Problem Solving for Coding interviews

Introduction

Time complexity cheatsheet

Primitive types

Reverse number

Highest product of 3

Find unique

Which appears twice

Nth Fibonacci number

Palindromic number

Compute parity

Swap bits

Reverse bits

Closest integer

Spreadsheet decoding



Smallest non-constructable value

Given an array of integers (representing coins), find the smallest value that cannot be constructed from those integers.

Solution

- Key observation here is, when the integers are sorted, we can always track the highest constructable value by doing a cumulative sum of the sorted integers
- At any point if the next integer is larger than $\text{max_constructable_so_far} + 1$, then we have found our smallest non-constructable value

Code

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