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## Project 2 - Testing Solution Quality

## Overview

Project 2 involves testing various bin packing algorithms experimentally to determine the quality of the solutions they produce. Specific bin-packing algorithms to be implemented and tested are the following five algorithms:

- 1. Next Fit (NF)
- 2. First Fit (FF)
- 3. First Fit Decreasing (FFD)
- 4. Best Fit (BF)
- 5. Best Fit Decreasing (BFD)

**NOTE**: Algorithms above except Next Fit algorithm have two implementations. The naive version has time complexity O(N^2). The faster implementation version uses balanced binary search tree (E.g. AVL Tree) and has time complexity O(N logN).

## Bin Packing Algorithms Implementation

## **Experimental Testing**

Test Method

Test Result Analysis