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# Motivation

In this experiment we are test three different implementations of 0-1 knapsack algorithm using the different dataset size.

# Experimental Setup

# Result

# Conclusion

Beside the goal of learning details of implementation of three 0-1 Knapsack algorithm, the side goals that authors were seeking was to capture the visual comparison between brute force and Dynamic programming, also learning the points that there are some differences and challenges from converting a pseudo code to the actual concrete implementations. And it involves a lot of efforts to debug, finding issues and fixing them in the programming languages.

# 

# Algorithm 1 – Brute force

## Brief explanation

## 

## Algorithm in psudo code

# Algorithm 2 – Dynamic Button up

## Brief explanation

## Algorithm in pseudo code

# Algorithm 3 – Top down

## Brief explanation

## Algorithm in psudo code

# Test case explanation

## How generate the sample test cases

## Testing environment

## How isolated we ran the test cases in

# Result of execution

## Comparing the result in graph possibly by time (running time comparison)

# References ( if we have any)

Details dynamic programming lectures

<http://www.es.ele.tue.nl/education/5MC10/Solutions/knapsack.pdf>

<http://cse.unl.edu/~goddard/Courses/CSCE310J/Lectures/Lecture8-DynamicProgramming.pdf>