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Advanced Algos

Assignment Two – Knapsack

I know that I didn’t get the code for the DP working, but I understand that it is similar to the Memorized version but it is built from the bottom up rather than from the top down.

Unfortunately, I spent quite some time rebuilding multiple sections of code and was just a little too late to the assignment get it to work. Overall I think I spend 14 hours on the project.

I didn’t get the final DP vs Memorized graph to compare, so the Memorized vs Recursive is included. I think that the graphs look the way they do for the same reason that we tend to want a better solution to complicated problems than recursive can offer. Over larger cases it grows to be better to look it up in a cache. It is quite surprising to me how similar the functions are to each other however.