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Last Program Assignment Report

For our implementation we decided to use sorted First fit, and sorted Best fit. Sorted Best fit always packs the bins better than sorted First fit. This makes sense as Best fit always tries to maximize each bin as opposed to simply putting the next item in the first bin it will fit in. The surprising part is that sorted best fit almost always runs faster. After running the code many times, most of the time the code reports that best fit ran faster for all trials. Even after scaling the items in the list as well as the trials all the way up to 1000 Best fit rarely drops below winning 95% of the trials for speed. Only once in the many times I ran it did it drop below 90%.