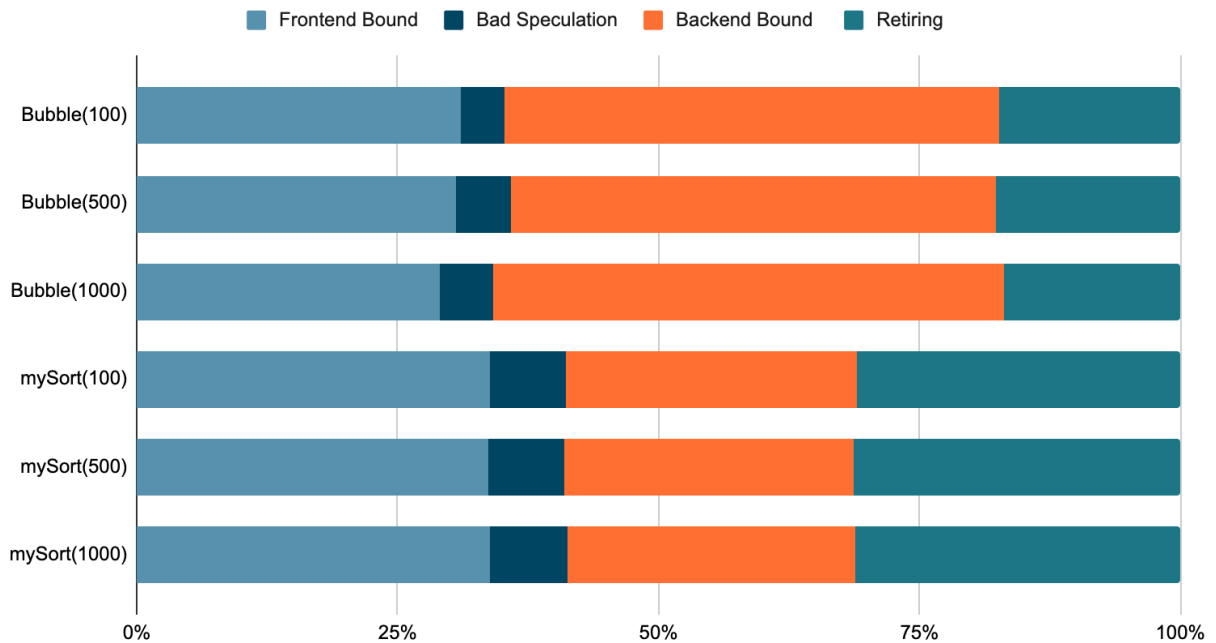# Report

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Pipeline bottleneck breakdown (%)

For mysort function, I implemented selection sort. What I find from the profiling data is bubble sort have more percentage of bottleneck at backend bound and selection sort have more percentage of bottleneck at frontend bound. I think the reason behind is that bubble sort will do more in-place swap between two elements, which is more handled by the backend part. For the selection sort, there are lots of instructions to find which digits is the smallest one and directly swap with the current start position, which is more handled by the frontend part.