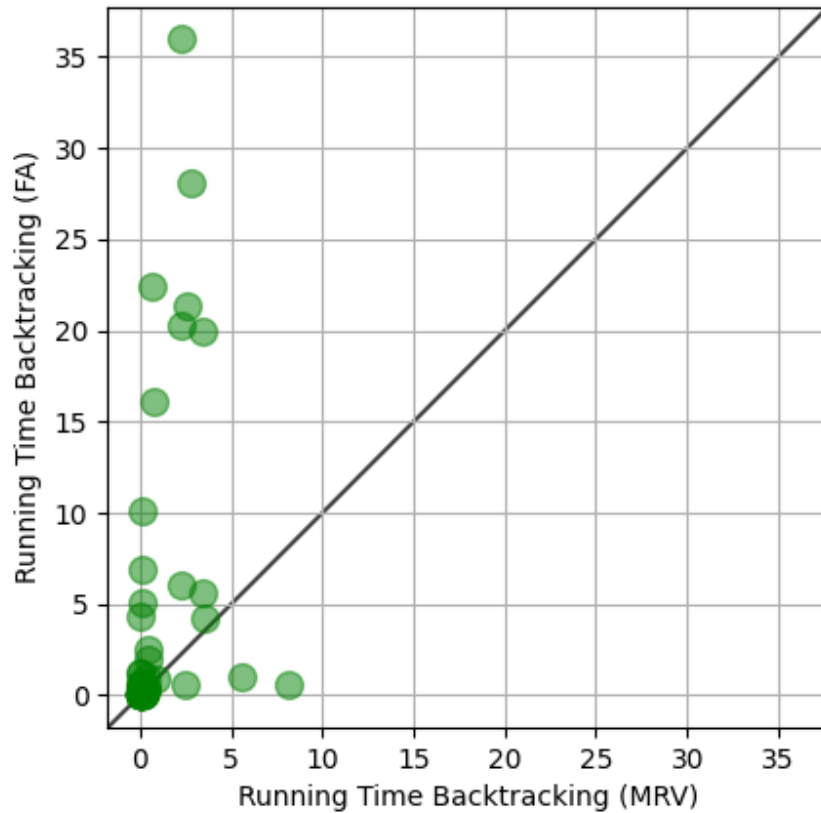# scatter plot analysis

In the scatter plot showing the running time of MRV variable selection vs FA variable selection we see that the running time for using the MRV heuristic is much faster than FA, this is to be expected as well because when searching with FA the search algorithm will encounter many more cases where a solution is not possible thus having to backtrack many more times where MRV will experience less of those because it chooses the following variable based on the smallest domain which limits the number of times needed to backtrack.