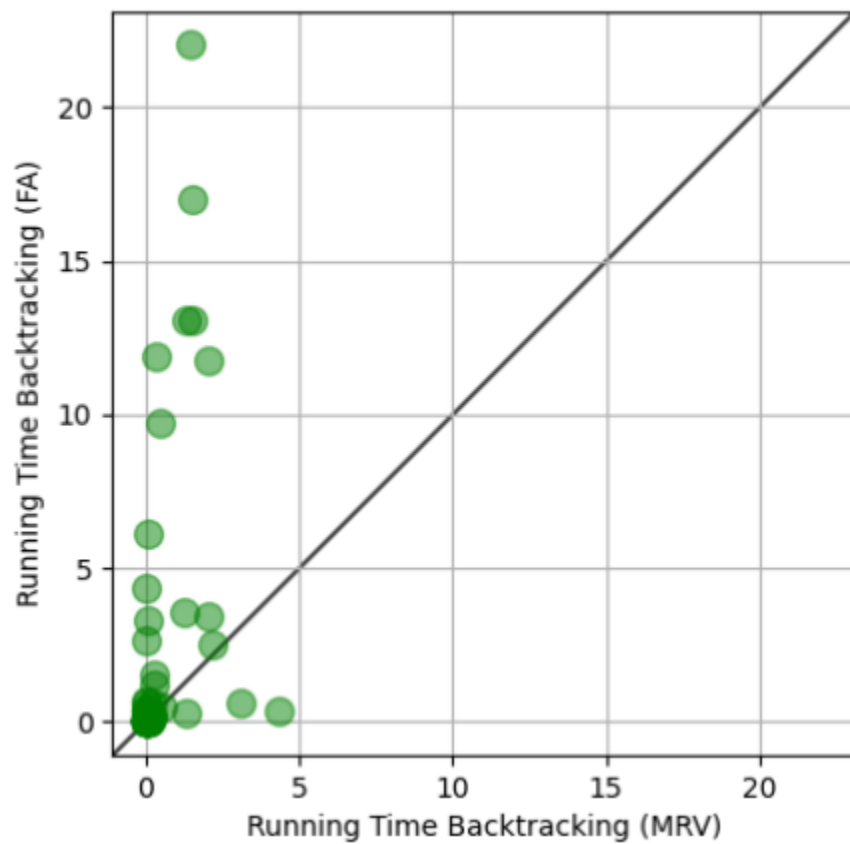


ASSIGNMENT 4  
Agrim Sood  
Plot and discuss results



The above scatter plot shows the running time of MRV variable selection vs the FA variable selection, we observe that the running time for the MRV heuristic is much faster than that for FA heuristic. This is because the FA search algorithm encounters many more cases where it doesn't find a solution and has to backtrack every time it doesn't find a solution. MRV heuristic chooses a variable based on the domain size (the smallest domain is chosen), which reduces the number of times it doesn't find a solution, so there are fewer backtracks.