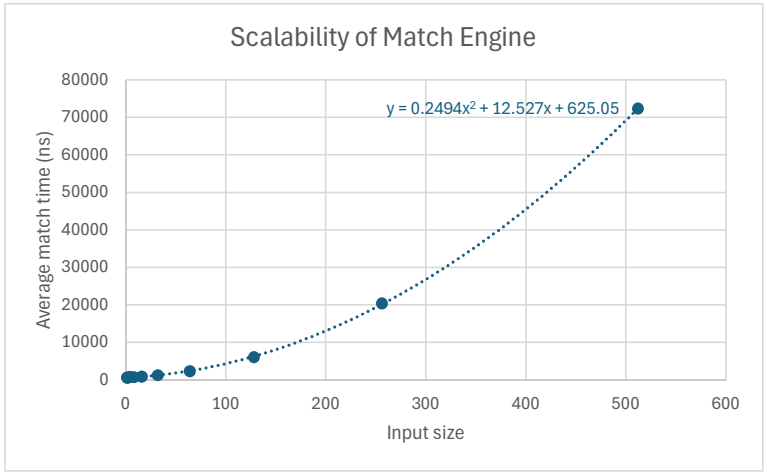
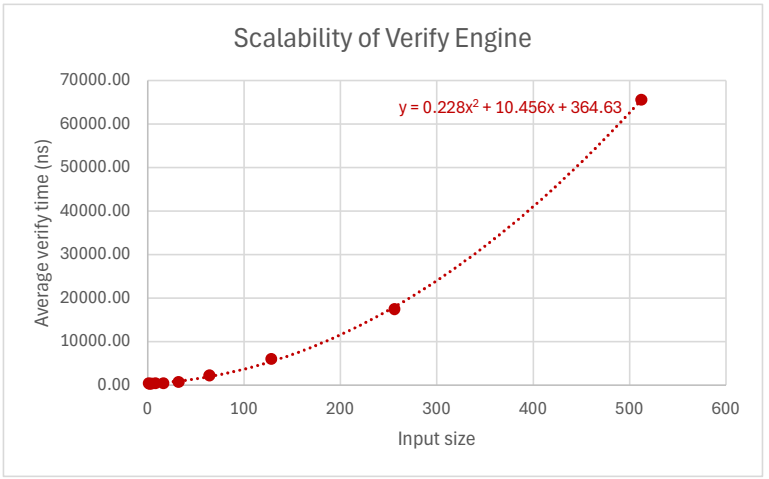
Input size	Match 1	Match 2	Match 3	Match Avg	Verify 1	Verify 2	Verify 3	Verify Avg
1	695	714	562	657.00	669	394	254	439.00
2	605	677	595	625.67	305	384	296	328.33
4	643	1061	717	807.00	355	358	346	353.00
8	609	1029	719	785.67	380	361	507	416.00
16	1081	795	867	914.33	579	374	362	438.33
32	1718	1108	998	1274.67	701	621	765	695.67
64	2754	2081	2119	2318.00	1445	1894	3478	2272.33
128	5017	6267	6913	6065.67	7097	5567	5472	6045.33
256	20806	20020	20400	20408.67	17417	17806	17209	17477.33
512	68838	76302	71951	72363.67	61395	67308	68045	65582.67





The above graphs were constructed by running the match/verify engines 3 times and averaging the execution time in nanoseconds.
I notice that both the match and verify times grow as a function of n^2, where n is the input size. This is consistent with the fact that the worst-case time complexity of Gale-Shapley is O(n^2).