

Custom Structure				
size	1000	10000	100000	1000000
time (seconds)	0.000154709	0.00146729	0.0138993	0.135682
memory (bytes)	32768	262144	1933312	16449536
Vector				
size	1000	10000	100000	1000000
time (s)	0.000287292	0.00487533	0.342059	33.7682
memory (mb)	16384	163840	983040	6900000
List				
size	1000	10000	100000	1000000
time (s)	0.000258	0.00246783	0.0237165	0.248175
memory (mb)	49152	360448	3211264	32079872
Custom Structure				
line of best fit (size vs. memory)		$\log(\text{Memory})=0.897\log(\text{Size})+4.197$		
R^2 (size vs. memory)		0.9998		
line of best fit (size vs. time)		$\log(\text{Time})=0.981\log(\text{Size})-15.553$		
R^2 (size vs. time)		0.99999		
Vector				
line of best fit (size vs. memory)		$\log(\text{Memory})=0.865\log(\text{Size})+17.713$		
R^2 (size vs. memory)		0.9973		
line of best fit (size vs. time)		$\log(\text{Time})=1.706\log(\text{Size})-20.431$		
R^2 (size vs. time)		0.9893		
List				
line of best fit (size vs. memory)		$\log(\text{Memory})=0.939\log(\text{Size})+18.095$		
R^2 (size vs. memory)		0.999		
line of best fit (size vs. time)		$\log(\text{Time})=0.993\log(\text{Size})-15.142$		
R^2 (size vs. time)		0.99991		