CMPT 295 – Spring 2023

Last (Family) name: Malhi

First name: Jaivir

Student number: 301457742

Circle your section: D100 **D200**

Participation Activity 8

Data Sheet

Data set: *Main Loop*

N	t1	t2	t3	t4	t5	μ
1000000	94136	97234	93207	10815	100502	98719.2
2000000	253004	279498	257414	266341	268343	263.131
4000000	639314	639619	619792	637327	653999	638009.4
8000000	1475476	1546436	1470010	1549081	1514601	1511120.8
16000000	2739559	2943275	2937364	2937364	2824949	2873312.6
32000000	5457202	5528142	3547410	5534753	5584510	5516823.4

Data set: *Quicksort 1*

N	t1	t2	t3	t4	t5	μ
1000000	123519	123263	126559	124956	125526	124764.6
2000000	252980	279159	269641	262960	251937	263335.4
4000000	542242	531932	552147	581308	573519	556529.6
8000000	1162484	1146750	1177059	1212018	1154649	1170592
16000000	2521234	2413513	2467713	2457192	2386557	2449241.8
32000000	4600765	4614898	4402362	4415058	4620026	4530621.8

Data set: *Quicksort 2*

N	t1	t2	t3	t4	t5	μ
1000000	311763	259690	264690	275868	277565	278915.2
2000000	602908	572876	586742	621745	589657	594784.4
4000000	1229559	1242046	1297170	1282460	1201649	125086.8
8000000	2556658	2556648	2523336	2499278	26008643	2548912.6
16000000	5461891	5407061	5165201	5258035	5082457	5274929
32000000	10982912	11281284	11630179	40502723	107757704	1103456.4