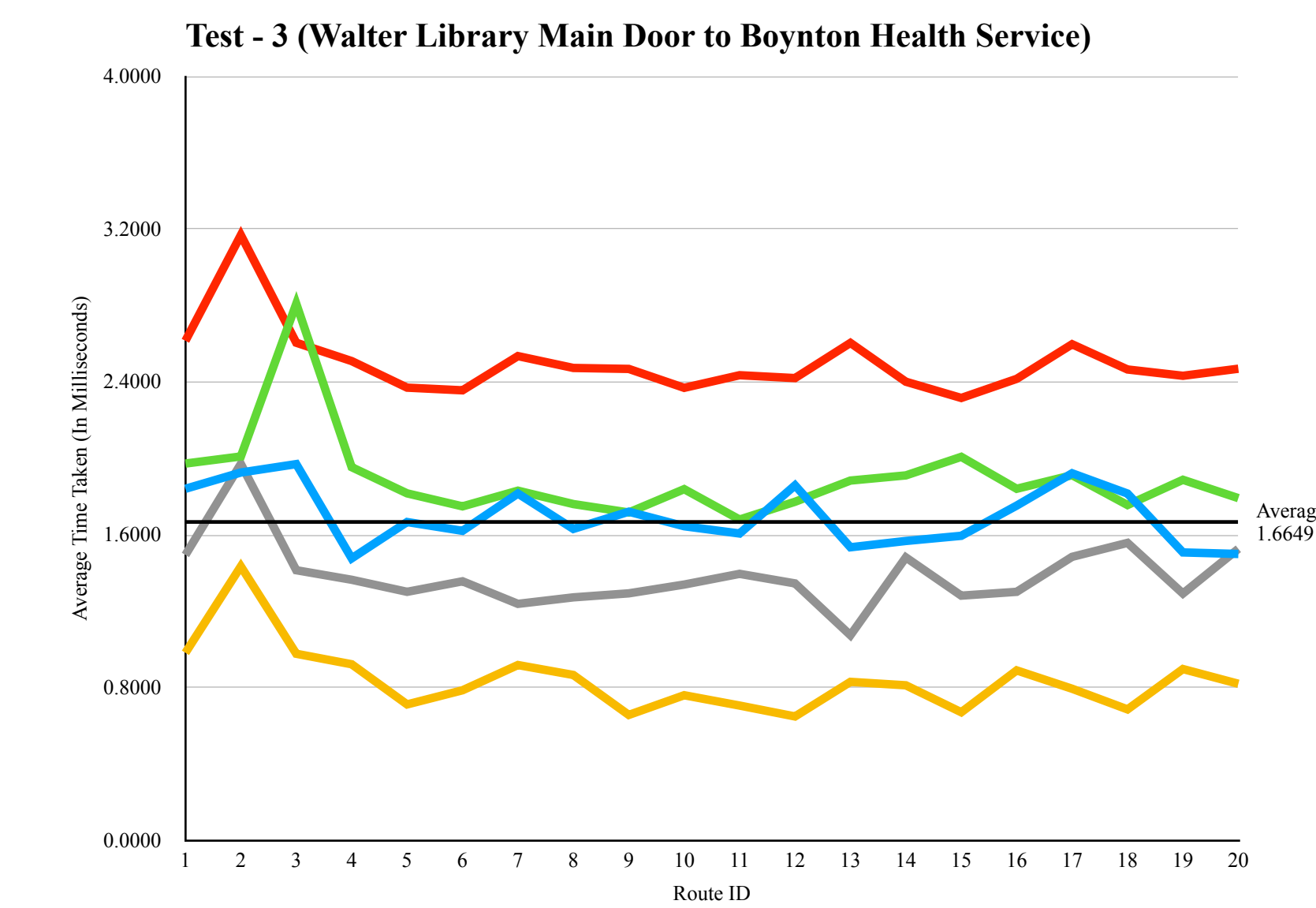
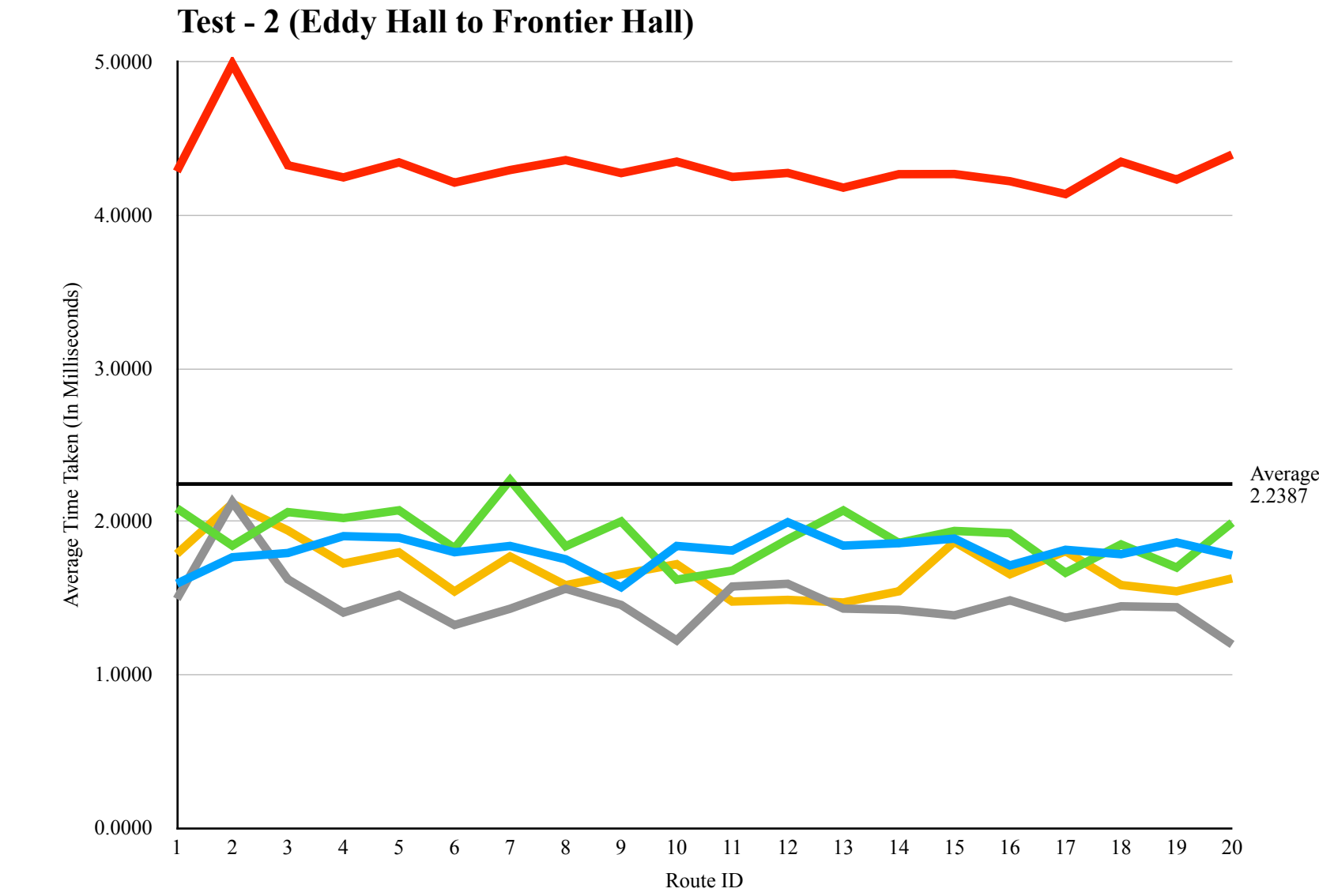
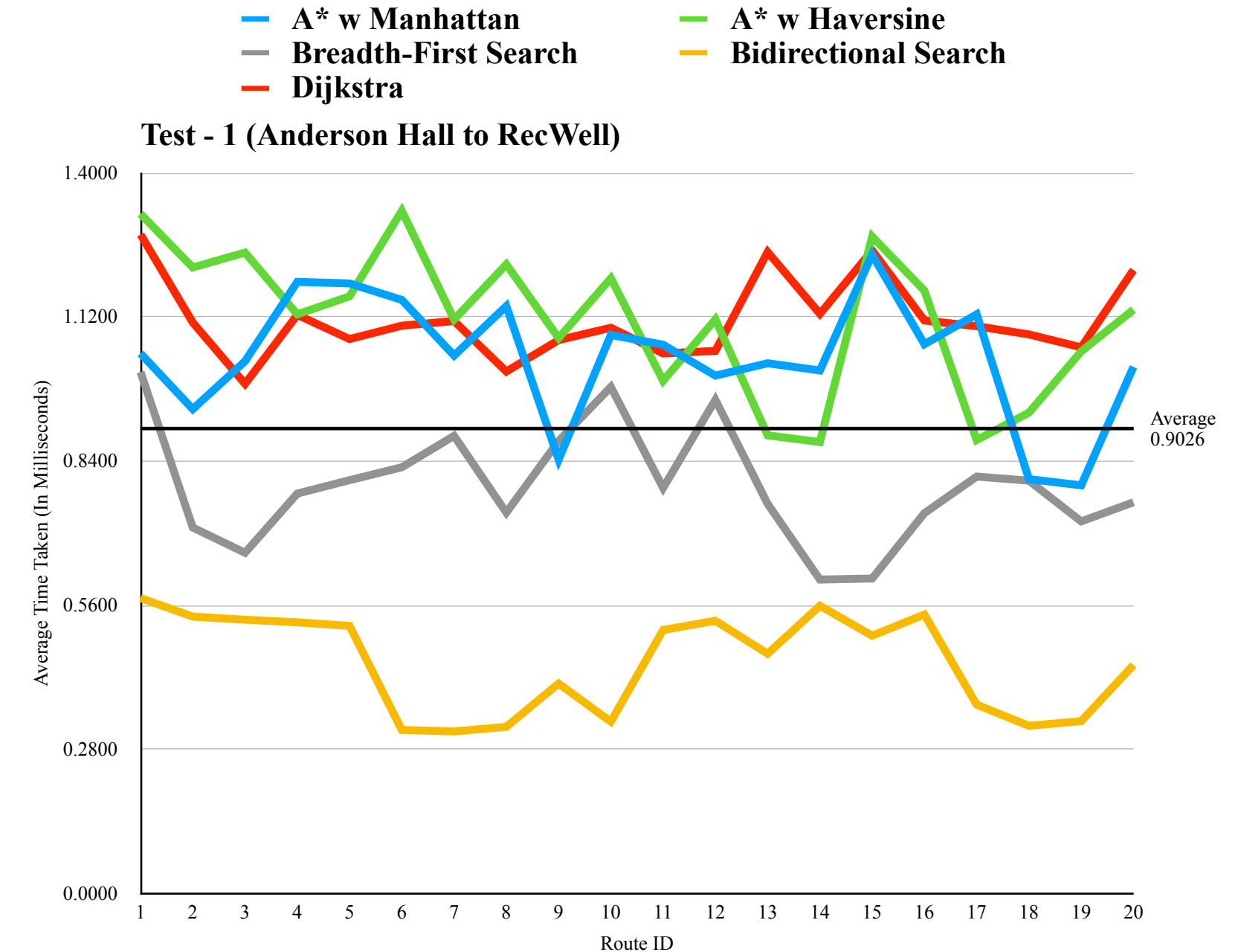


A* w Manhattan					
Result ID	Start	Destination	Average Time Taken (in milliseconds)	Average Memory Used (in Bytes)	Distance Traveled (in Kilometers)
1	Anderson Hall	University Recreation and Wellness Center	1.0490	570720.838739678	1.1913
2			0.84100	557917.52529412	
3			1.0340	554265.26986507	
4			1.1880	558232.231820896	
5			1.1850	557255.432835821	
6			1.1530	557994.288597463	
7			1.0450	557423	
8			1.1410	557307.852841177	
9			0.84300	557664.651162791	
10			1.0850	558233.205882533	
11			1.0660	558472.805671642	
12			1.0860	557872.531313333	
13			1.0300	554801.552228806	
14			1.0160	558089.735284118	
15			1.2410	558795.606060606	
16			1.0670	558378.835820896	
17			1.1250	557591.848484849	
18			0.80000	558666.964705882	
19			0.79300	558125.462365591	
20			1.0230	558261.893617021	
Total			20.836	11172521.3957321	
Average			1.0418	558616.069786605	

A* w Manhattan-1					
Result ID	Start	Destination	Average Time Taken (in milliseconds)	Average Memory Used (in Bytes)	Distance Traveled (in Kilometers)
1	Eddy Hall	Frontier Hall	1.5950	1038476.57471254	1.6195
2			1.7670	1017042.63636364	
3			1.7950	1014382.59770115	
4			1.9050	1016036.6865517	
5			1.8950	103138.25287356	
6			1.8000	996929	
7			1.8410	1002767.224898	
8			1.7540	1013906.66666667	
9			1.5710	1014457.47126437	
10			1.8410	1014579.72413793	
11			1.8110	1014620.96551724	
12			1.9960	976055.761904762	
13			1.8430	977094.13793103	
14			1.8590	976359.57438965	
15			1.8390	1013662.56227848	
16			1.7140	1015506.78654545	
17			1.8160	1014639.72727273	
18			1.7870	1014786.25	
19			1.8640	1014107.31818182	
20			1.7800	1013623.88505747	
Total			36.1230	20168263.9249399	
Average			1.8062	1008413.196247	

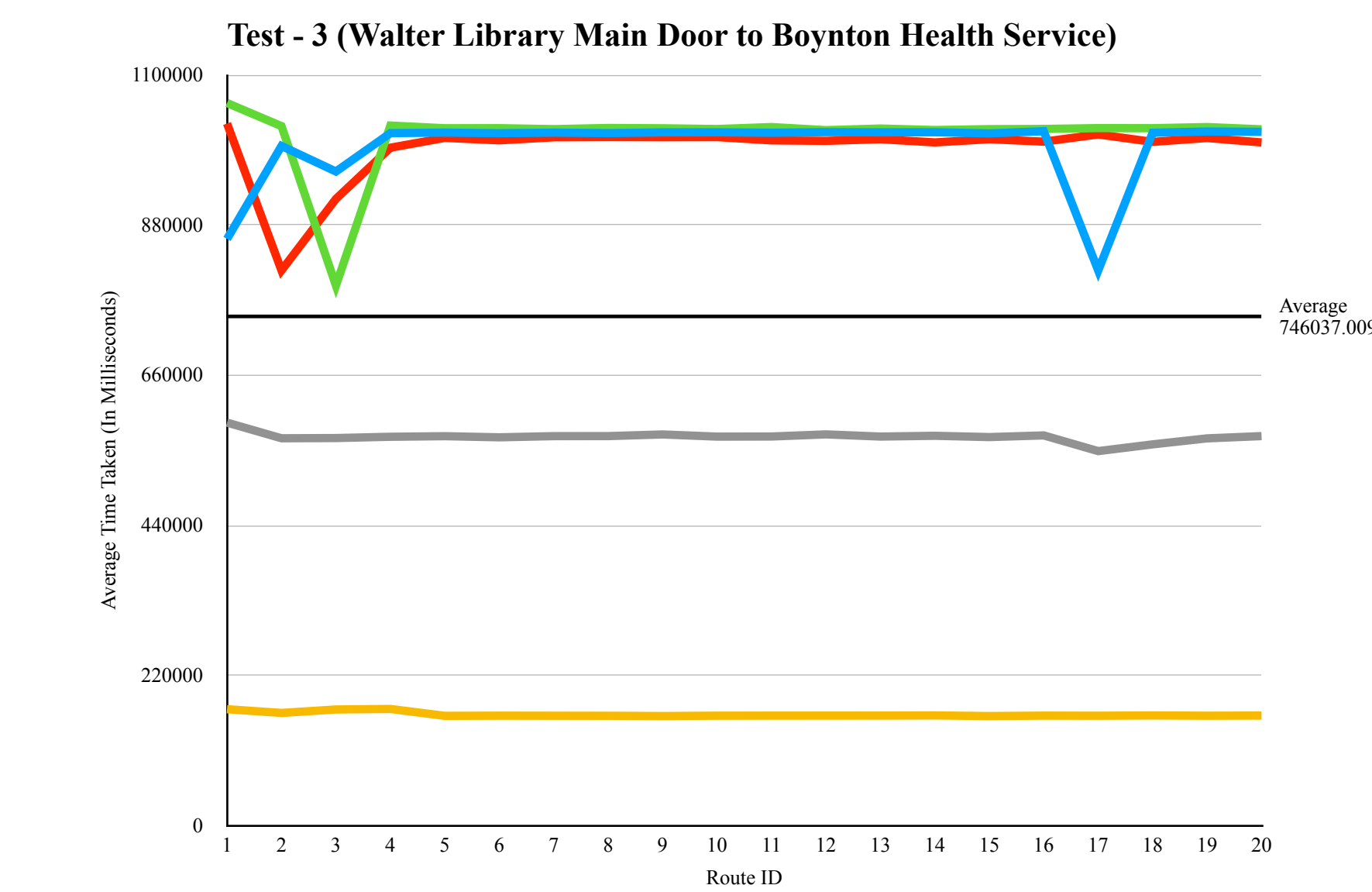
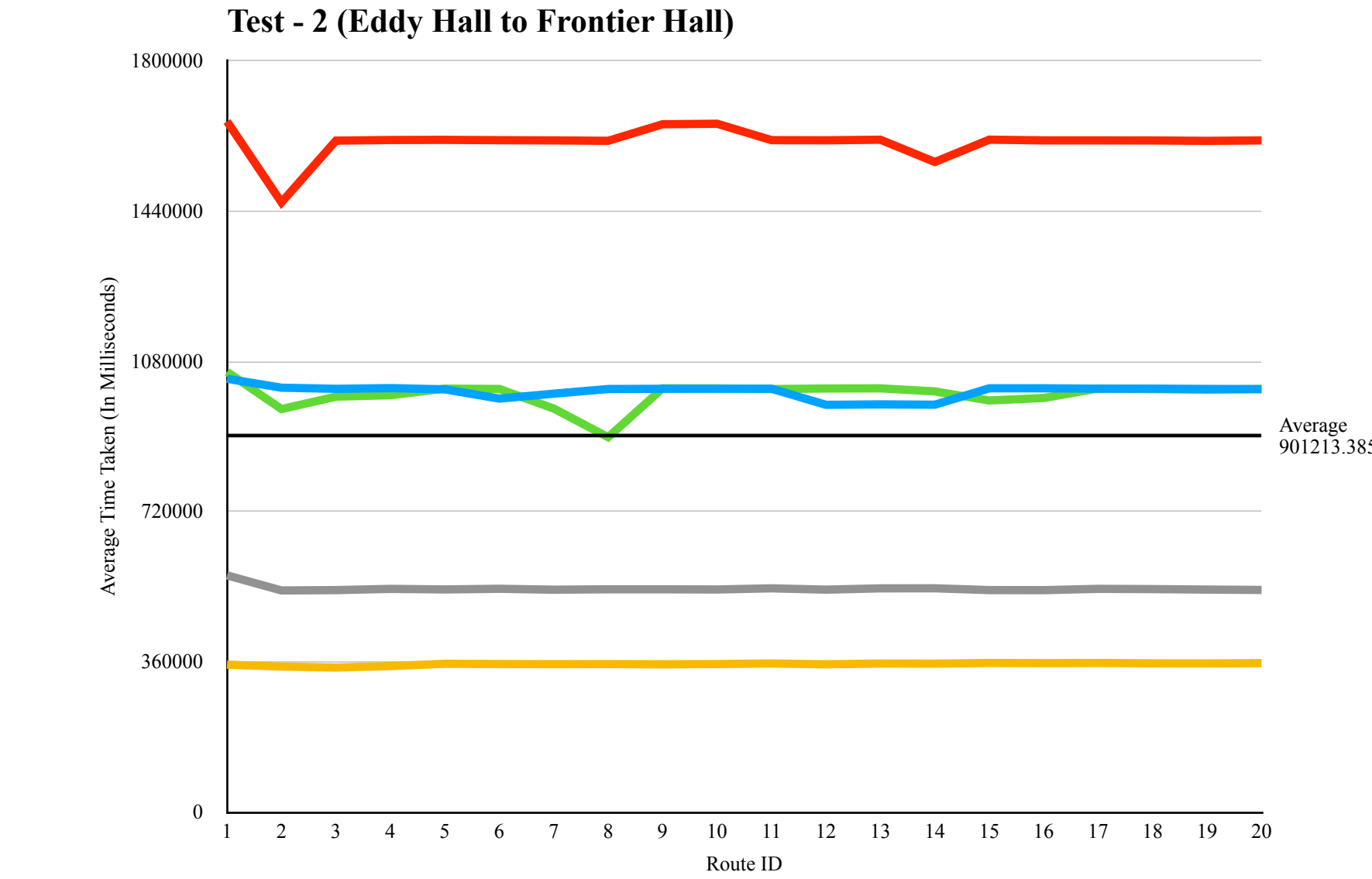
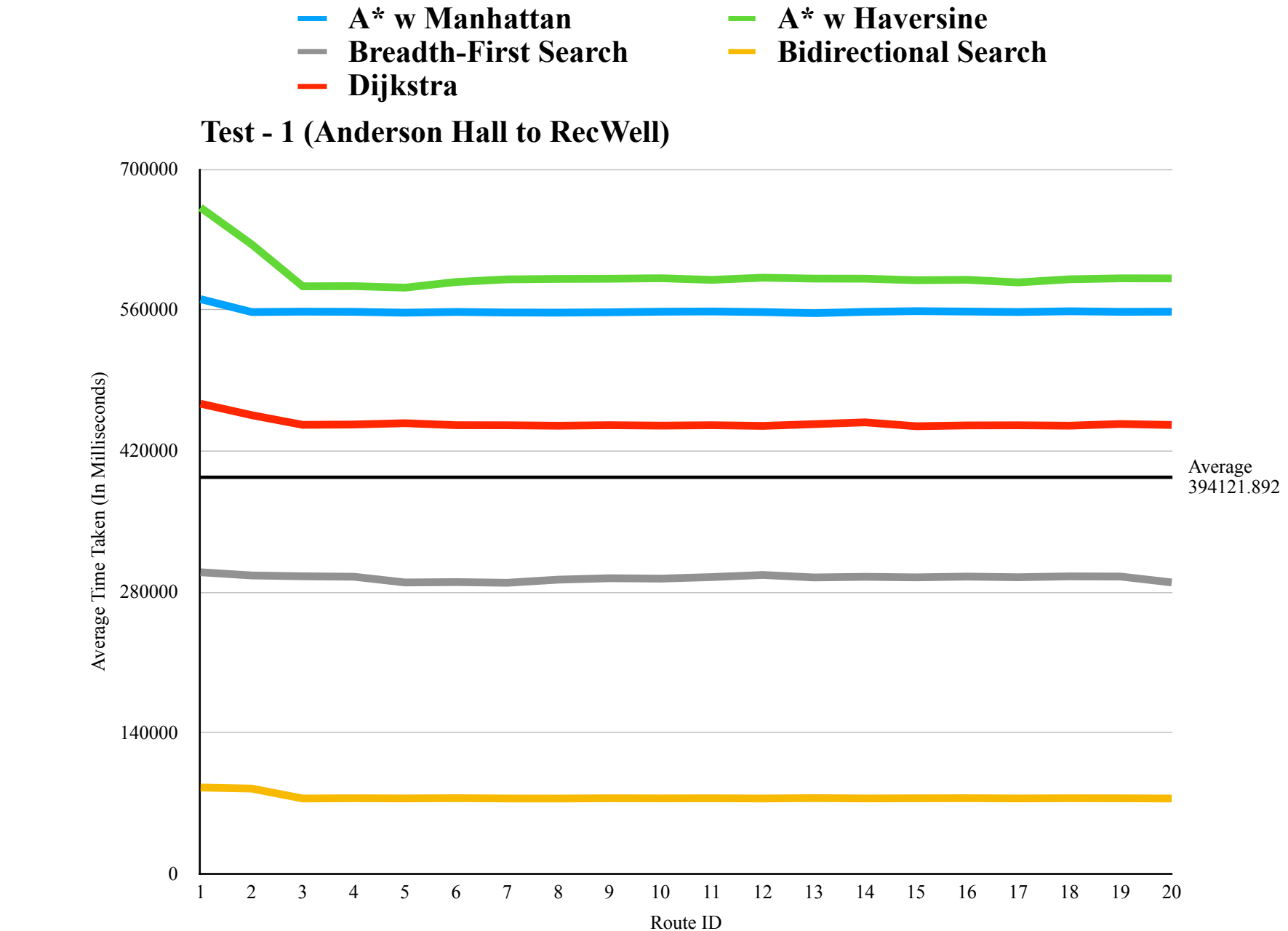
A* w Manhattan-2					
Result ID	Start	Destination	Average Time Taken (in milliseconds)	Average Memory Used (in Bytes)	Distance Traveled (in Kilometers)
1	Walter Library (main door)	Boynton Health Service	1.8410	559520.15625	0.50063
2			1.9260	995650.409090909	
3			1.9700	958220.765957447	
4			1.4770	1014456.9066667	
5			1.6670	1015196.38636364	
6			1.6210	1014344.45977012	
7			1.8160	1015179.27272727	
8			1.6310	1014463.54545455	
9			1.7210	1015529.72413793	
10			1.6450	1015625.31818182	
11			1.6070	1014975.25	
12			1.8590	1018071.79110485	
13			1.5350	1015566.78654545	
14			1.5480	1015752.34890909	
15			1.5950	1014052.22988506	
16			1.7530	101729.95402294	
17			1.9220	813248.666666667	
18			1.8160	1014970.025	
19			1.5080	1016784.31818182	
20			1.5000	1016292.04597701	
Total			33.9780	19872940.7278919	
Average			1.6989	993647.038644595	



A* w Haversine					
Result ID	Start	Destination	Average Time Taken (in milliseconds)	Average Memory Used (in Bytes)	Distance Traveled (in Kilometers)
1	Anderson Hall	University Recreation and Wellness Center	1.3200	661613.897304348	1.1913
2			1.2160	625172.525294121	
3			1.2490	584545.269865213	
4			1.1250	583628.835820896	
5			1.1600	582120.486486487	
6			1.3260	587750.25	
7			1.1150	590347.84862366	
8			1.2220	590800.521739131	
9			1.0790	590964.408602151	
10			1.1950	591458.258064516	
11			0.9900	589866.086956522	
12			1.1150	590122.53659914	
13			0.80000	591106.523280045	
14			0.87700	591031.741935484	
15			1.2760	589473.010752688	
16			1.1710	589899.913043478	
17			0.83100	587350.635294118	
18			0.91400	590425.032280063	
19			1.0530	591364.823665914	
20			1.1340	591277.97826087	
Total			22.3300	11891189.6174263	
Average			1.1165	594555.980871115	

A* w Haversine-1					
Result ID	Start	Destination	Average Time Taken (in milliseconds)	Average Memory Used (in Bytes)	Distance Traveled (in Kilometers)
1	Eddy Hall	Frontier Hall	1.8430	963682.575900901	1.6195
2			2.0620	965626.102504103	
3			2.0230	990649.794871795	
4			2.0740	1014798.1866667	
5			1.8260	1014052.97272723	
6			2.2710	1061720.052651579	
7			1.8390	899485.170731707	
8			2.0010	1015473.78666667	
9			1.6210	1015305.60199154	
10			1.6800	1013822.48275862	
11			1.8840	1015129.01149425	
12			2.0730	1015493.49425287	
13			1.8010	1015066.1086177	
14			1.6980	986469.942657143	
15			1.9240	990438.777777778	
16			1.6660	1015145.4933333	
17			1.8510	1013707.84090909	
18			1.7000	101140.44137931	
19			1.9350	1014062.71264568	
20			38.2180	20027239.289158	
Total			1.9109	1001366.46344579	

A* w Haversine-2					
Result ID	Start	Destination	Average Time Taken (in milliseconds)	Average Memory Used (in Bytes)	Distance Traveled (in Kilometers)
1	Walter Library (main door)	Boynton Health Service	1.9750	1058496.52873563	0.50063
2			2.0100	1024688.0919502	
3			2.8090	791207.418181818	
4			1.9540	1025066.5284176	
5			1.8170	1021598.48192771	
6			1.7490	1021693.40909091	
7			1.8310	1020266.75	
8			1.7610	1021987.36363636	
9			1.7170	1021537.54545455	
10			1.8390	1020416.56818182	
11			1.6800	1023330.31818182	
12			1.7730	1018789.5	
13			1.8840	1021155.05747126	
14			1.9110	1018972.5	
15			2.0880	1020271.37931034	
16			1.8410	1020552.22988506	
17			1.9120	1021707.65747126	
18			1.7560	1021662.20454545	
19			1.8880	1023336.5	
20			1.7920	1019970	
Total			37.9500	20237225.433498	
Average			1.8953	1011861.27167199	



Breadth-First Search					
Result ID	Start	Destination	Average Time Taken (in milliseconds)	Average Memory Used (in Bytes)	Distance Traveled (in Kilometers)
1	Anderson Hall	University Recreation and Wellness Center	1.0130	299561.463973734	1.1913
2			0.71100	296379.587628866	
3			0.66200	295542.577319588	
4			0.77700	295099.915252773	
5			0.80300	289420	
6			0.82800	289783.58974359	
7			0.88900	289103.428571429	
8			0.74000	292222	
9			0.87900	293625.741935484	
10			0.98400	293236.595744061	
11			0.78900	294766.541666667	
12			0.51200	290522.866957938	
13			0.53000	294940.2105263158	
14			0.46600	293575.875	
14			0.65900	296871.504147826	
15			0.50100	75119.9130437463	
16			0.54200	75218.596122449	
17			0.36700	74970.5979381443	
18			0.32600	75176.5773198576	
19			0.33500	75096.9462365592	
20			0.44400	74917.841666667	
Total			8.97200	1521799.19166671	
Average			0.7923	293575.980871024	

Breadth-First Search-1					
Result ID	Start	Destination	Average Time Taken (in milliseconds)	Average Memory Used (in Bytes)	Distance Traveled (in Kilometers)
1	Eddy Hall	Frontier Hall	1.4950	567465.52680172	1.6189
2			2.1280	531333.111111111	
3			1.6230	532197.333333333	
4			1.4060	535103.170212766	
5			1.5210	533770.186386379	
6			1.3250	535358.765957447	
7			1.4310	534764.058333333	
8			1.5620	534079.784946237	
9			1.4560	534082.271666667	
10			1.2240	533646.936170213	
11			1.5760	536406.765957447	
12			1.5940	533278.06329787	
13			1.4320	536341.659574468	
14			1.4240	536511.803617021	
15			1.3880	532226.322806465	
16			1.4860	532052.957446809	
17			1.3720	535180.80810638	
18			1.4470	534580.150337634	
19			1.4410	533438.752688172	
20			1.1980	532565.70212766	
Total			28.5290	1071278.2282468	
Average			1.4765	535639.0411234	

Breadth-First Search-2					
Result ID	Start	Destination	Average Time Taken (in milliseconds)	Average Memory Used (in Bytes)	Distance Traveled (in Kilometers)
1	Walter Library (main door)	Boynton Health Service	1.4950	590547	804547826
2			1.0710	567618	898776882
3			1.4150	567947	772272273
4			1.4150	568088	708077419
5			1.3020	570655	878967742
6			1.3570	569017	290322581
7			1.2390	570724	15055765
8			1.2710	570779	565892473
9			1.2940	573217	204301075
10			1.3400	570022	23655914
11			1.3900	570106	193340387
12			1.3460	573323	25806652
13			1.0750	570117	806451613
14			1.4620	571227	63258065
15			1.2820	569366	387096774
16			1.3020	571791	52688172
17			1.4850	548304	485774286
18			1.5580	558609	076923077
19			1.2910	567465	139334884
20			1.5270	570787	247311828
Total			27.7670	1139297	6255971
Average			1.3899	569664	881279855