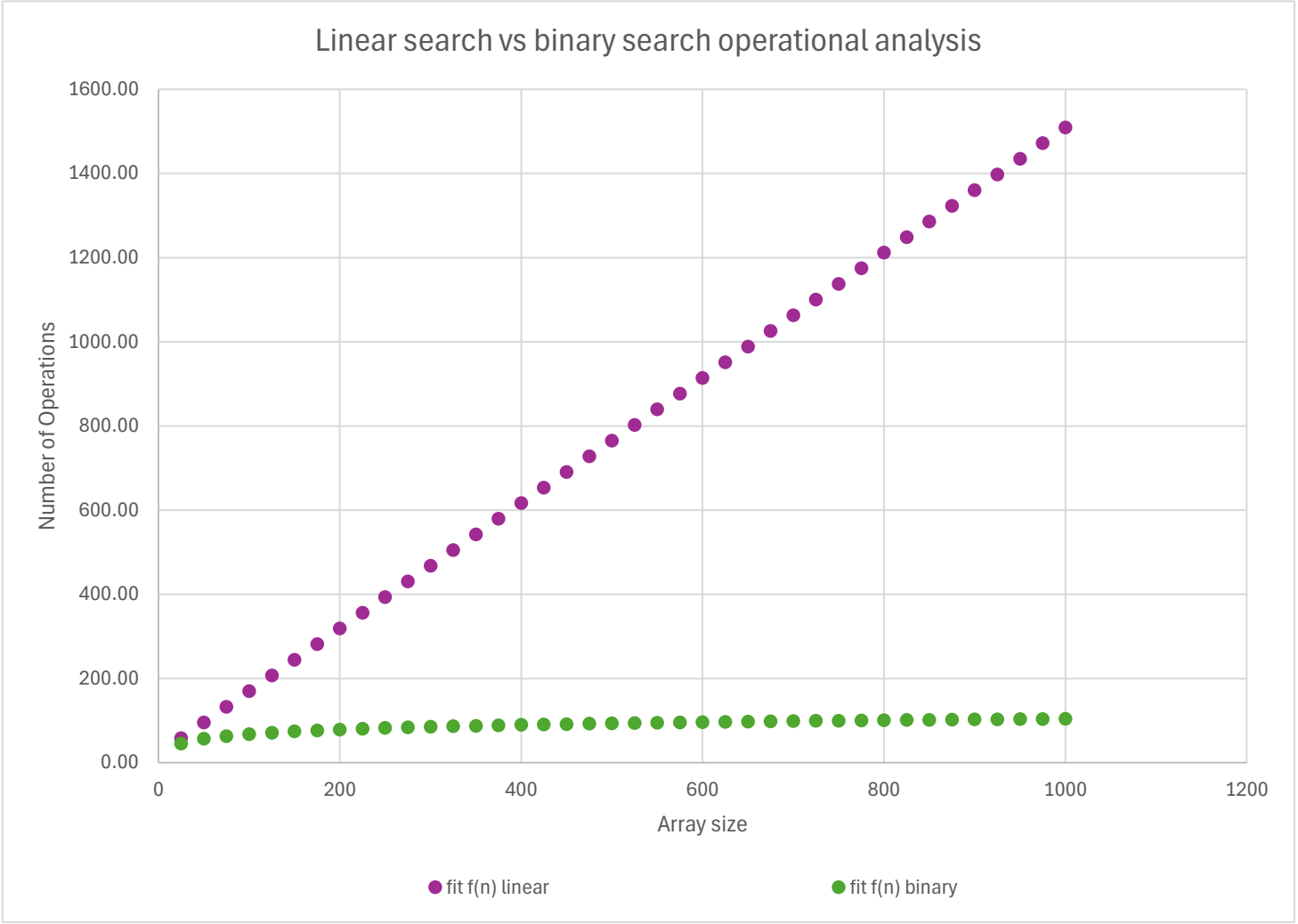


r^0	Size(n)	log(n,2)	Linear search	Binary search	f(n) BigO(n)	f(n) BigO(log n)	fit f(n)		+Delta Above	
			operations	operations	cl2	cl2	linear	binary	linear	binary
1	25	4.6439	40.09	31.00	37.20	51.19	58.57	45.68	-18.48	-14.68
1	50	5.6439	85.39	38.44	74.40	62.21	95.77	56.70	-10.38	-18.26
1	75	6.2288	112.39	41.48	111.60	68.66	132.97	63.15	-20.58	-21.67
1	100	6.6439	137.14	45.48	148.80	73.24	170.17	67.73	-33.03	-22.25
1	125	6.9658	190.96	47.24	186.00	76.78	207.37	71.27	-16.41	-24.03
1	150	7.2288	244.78	49.00	223.20	79.68	244.57	74.17	0.22	-25.17
1	175	7.4512	270.13	51.24	260.40	82.13	281.77	76.62	-11.64	-25.38
1	200	7.6439	296.92	54.28	297.60	84.26	318.97	78.75	-22.05	-24.47
1	225	7.8138	312.73	54.36	334.80	86.13	356.17	80.62	-43.44	-26.26
1	250	7.9658	365.98	53.64	372.00	87.81	393.37	82.30	-27.39	-28.66
1	275	8.1033	405.97	55.56	409.20	89.32	430.57	83.81	-24.60	-28.25
1	300	8.2288	457.51	59.88	446.40	90.71	467.77	85.20	-10.26	-25.32
1	325	8.3443	473.83	55.80	483.60	91.98	504.97	86.47	-31.14	-30.67
1	350	8.4512	525.04	60.20	520.80	93.16	542.17	87.65	-17.13	-27.45
1	375	8.5507	608.71	60.36	558.00	94.25	579.37	88.75	29.35	-28.39
1	400	8.6439	604.42	61.80	595.20	95.28	616.57	89.77	-12.15	-27.97
1	425	8.7313	601.45	59.32	632.40	96.25	653.77	90.74	-52.31	-31.42
1	450	8.8138	699.67	61.72	669.60	97.15	690.97	91.64	8.70	-29.92
1	475	8.8918	825.07	61.80	706.80	98.01	728.17	92.50	96.91	-30.70
1	500	8.9658	722.35	61.88	744.00	98.83	765.37	93.32	-43.02	-31.44
1	525	9.0362	748.84	60.20	781.20	99.61	802.57	94.10	-53.73	-33.90
1	550	9.1033	814.54	61.96	818.40	100.35	839.77	94.84	-25.23	-32.88
1	575	9.1674	915.82	63.80	855.60	101.05	876.97	95.54	38.86	-31.74
1	600	9.2288	948.61	65.24	892.80	101.73	914.17	96.22	34.45	-30.98
1	625	9.2877	910.30	65.88	930.00	102.38	951.37	96.87	-41.07	-30.99
1	650	9.3443	1020.07	66.52	967.20	103.00	988.57	97.49	31.51	-30.97
1	675	9.3987	988.57	67.56	1004.40	103.60	1025.77	98.09	-37.19	-30.53
1	700	9.4512	1062.61	67.80	1041.60	104.18	1062.97	98.67	-0.36	-30.87
1	725	9.5018	1140.82	67.96	1078.80	104.74	1100.17	99.23	40.66	-31.27
1	750	9.5507	1060.78	67.72	1116.00	105.28	1137.37	99.77	-76.59	-32.05
1	775	9.5981	1141.63	67.16	1153.20	105.80	1174.57	100.29	-32.93	-33.13
1	800	9.6439	1217.98	70.04	1190.40	106.30	1211.77	100.79	6.21	-30.75
1	825	9.6883	1326.91	67.96	1227.60	106.79	1248.97	101.28	77.95	-33.32
1	850	9.7313	1249.60	68.12	1264.80	107.27	1286.17	101.76	-36.57	-33.64
1	875	9.7731	1258.09	69.40	1302.00	107.73	1323.37	102.22	-65.28	-32.82
1	900	9.8138	1334.80	69.72	1339.20	108.18	1360.57	102.67	-25.77	-32.95
1	925	9.8533	1301.95	69.64	1376.40	108.61	1397.77	103.10	-95.82	-33.46
1	950	9.8918	1388.08	70.52	1413.60	109.04	1434.97	103.53	-46.89	-33.01
1	975	9.9293	1363.78	71.08	1450.80	109.45	1472.17	103.94	-108.39	-32.86
1	1000	9.9658	1364.71	72.12	1488.00	109.85	1509.37	104.34	-144.66	-32.22



Cl0 =

21.365

Cb0 =

-5.510

cl1 =

1.488

Cb1 =

11.023

linear search

$f(n) = c_0 \cdot x^0 + c_1 \cdot x^1$

r^0	Size(n)	log(n,2)	linear	binary	fit f(n)	
			search	search	linear	binary
1	25	4.6439	40.09	31.00	58.57	45.68
1	375	8.5507	608.71	60.36	579.37	88.75
1	775	9.5981	1141.63	67.16	1174.57	100.29
1	1000	9.9658	1364.71	72.12	1509.37	104.34

Linear search grows linearly with input size (O(n))

Binary search grows logarithmically (O(log n))