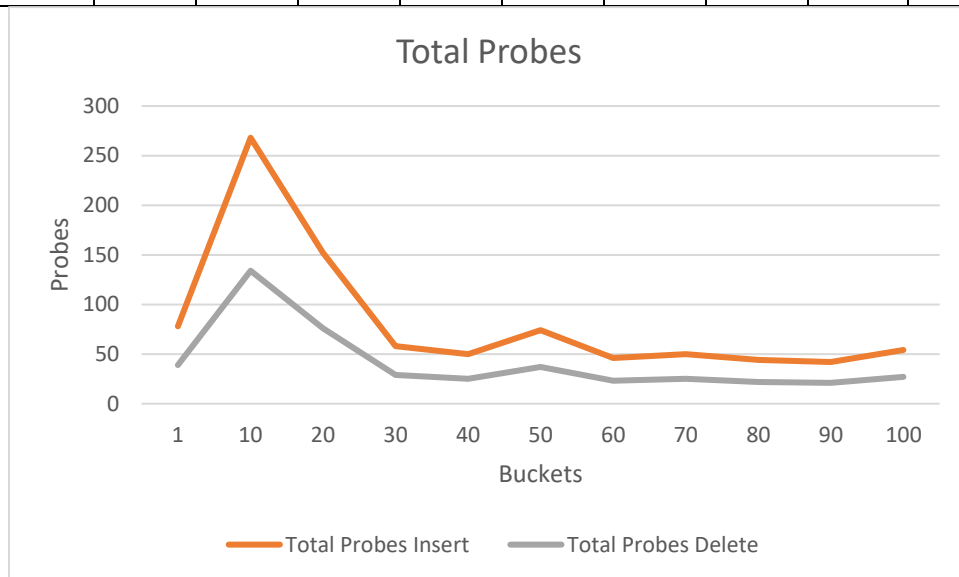


Problem 2 Closed Hash

Test data = array of strings ['0', '1', ..., '19']

Buckets	1	10	20	30	40	50	60	70	80	90	100
Total Probes Insert	78	268	152	58	50	74	46	50	44	42	54
Total Probes Delete	39	134	76	29	25	37	23	25	22	21	27
Average Insert	1.95	6.7	3.8	1.45	1.25	1.85	1.15	1.25	1.1	1.05	1.35
Average Delete	1.95	6.1	3.8	1.45	1.25	1.85	1.15	1.25	1.1	1.05	1.35



Test data = array of strings ['0²', '1²', ..., '19²']

Buckets	1	5	10	15	20	25	30	35	40	45	50
Total Probes Insert	78	196	266	286	162	106	70	64	62	48	50
Total Probes Delete	39	98	133	143	81	53	35	32	31	24	25
Average Insert	1.95	4.9	6.65	7.15	4.05	2.65	1.75	1.6	1.55	1.2	1.25
Average Delete	1.95	4.9	6.65	7.15	4.05	2.65	1.75	1.6	1.55	1.2	1.25