Hash Tables: Quadratic Probing

CS 124 / Department of Computer Science

Quadratic probing

Quadratic probing

Quadratic probing vs linear probing

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

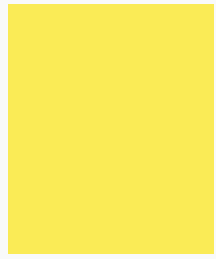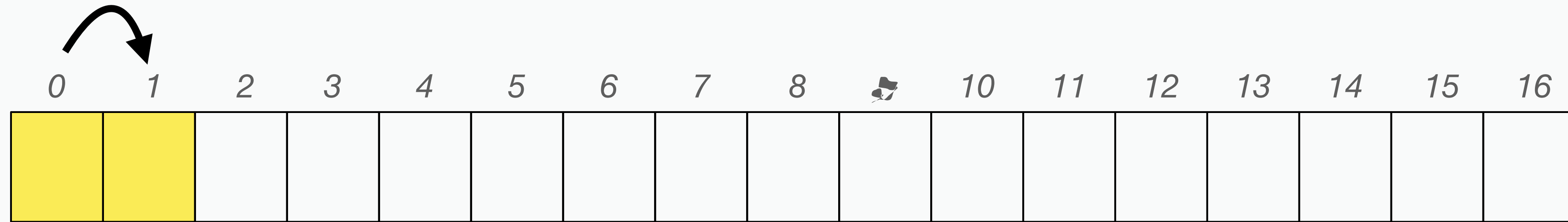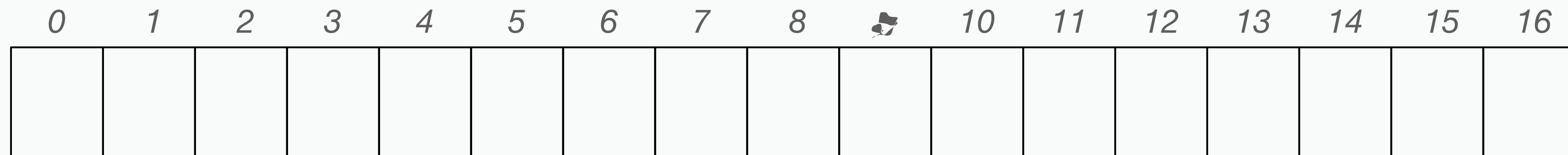| 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Quadratic probing vs linear probing

Quadratic probing vs linear probing

Quadratic probing vs linear probing

Quadratic probing vs linear probing

	0	1	2	3	4	5	6	7	8	🚩	10	11	12	13	

Quadratic probing vs linear probing

0, 1, 2, 3   4

Quadratic probing vs linear probing

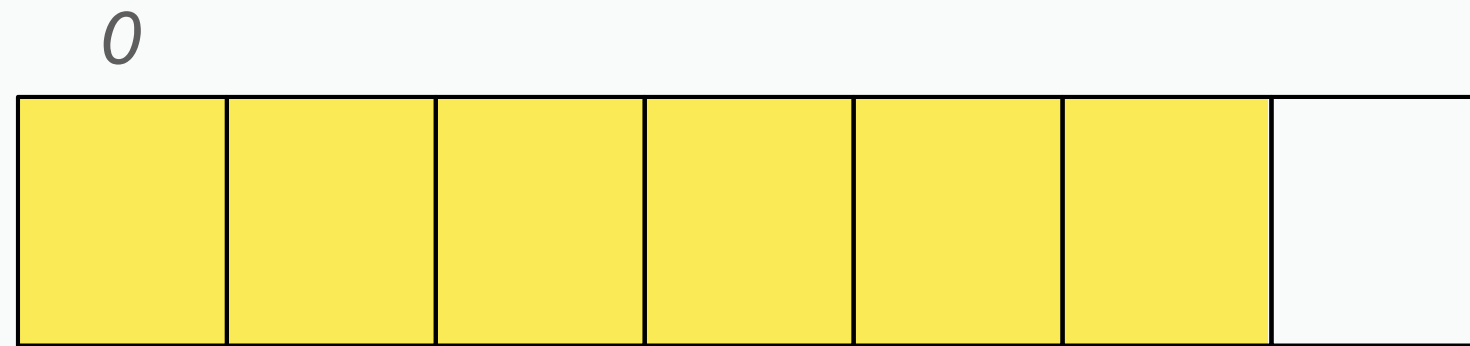
0, 1, 2, 3, 4,   5

Quadratic probing vs linear probing

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Quadratic probing vs linear probing

Quadratic probing vs linear probing

Quadratic probing vs linear probing

Comparison of CRPs

Linear probing	Quadratic probing	Separate chaining
( )		/
(1)	(²)	/
		ᴄ

Quadratic probing: summary

-

-

-