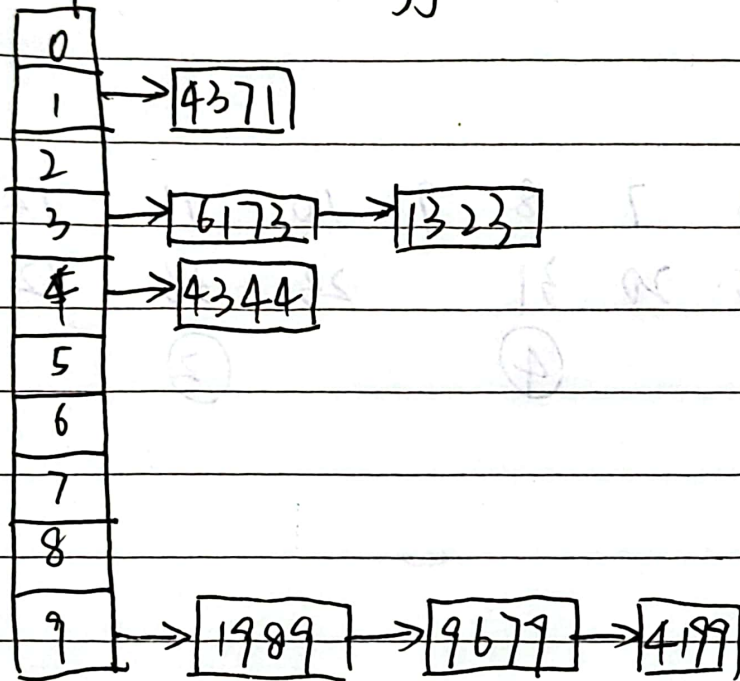


1. a. Separate chaining hash table



b. Linear probing

0	1	2	3	4	5	6	7	8	9
9679	4371	1989	1323	6173	4344				4199

c. Quadratic probing

0	1	2	3	4	5	6	7	8	9
9679	4371		1323	6173	4344			1989	4199



d. 双链表

0	1	2	3	4	5	6	7	8	9
4371			1323	6173	9679		4344		4199

$$h_2(6173) = 7 - 6 = 1$$

$$h_2(4344) = 7 - 4 = 3$$

$$h_2(9679) = 7 - 5 = 2$$

$$h_2(1989) = 7 - 1 = 6 \quad ? \text{满了}$$

rehash. 新表长为原表大小2倍后的第1个质数

$$10 \times 2 \rightarrow 23$$

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
4371							6173		1989	1323	4199								9679
20	21	22	23																
4344																			

2. a) 0 1 2 3 4 5 6 7 8 9 10 11 12

78		15	03		57	45	20	31		23	36	12
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2) (4) (2)

$$(1 \times 8 + 4 + 2) \div 10 = 1.4$$

