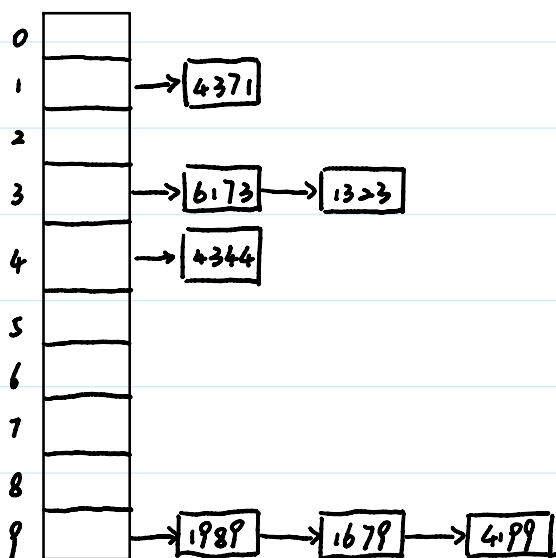


## Assignment 4 Problem 3

$$h_1(k) = k \bmod 10$$

$$M = 10.$$

a) Separate chaining



b) Linear probing

0	1679
1	4371
2	1989
3	1323
4	6173
5	4344
6	
7	
8	
9	4199

c) Double hashing  $h_2(k) = \lfloor K/1000 \rfloor$ 

0	1679
1	4371
2	1989
3	1323
4	4344
5	
6	
7	4199
8	
9	6173

d) Cuckoo hashing  $h_2(k) = \lfloor K/1000 \rfloor$ 

0		0
1	4371	1679
2		
3	1323	
4	4344	4199
5		
6		6173
7		
8		
9	1989	