

6)

	0	1	2	3	4	5	6	7	8	9	10
info	56	23	55	3	99	24	83	40	74	100	
next	2	0	4	-1	5	9	-1	-1	-1	-1	-1

first Empty = 0

$$h(k) = k \% 11$$

→ first Empty = 2

$$h(3) = 3$$

→ first Empty = 4

$$h(74) = 8$$

→ first Empty = 5

$$h(40) = 7$$

→ first Empty = 9

$$h(23) = 1$$

→ first Empty = 10

$h(56) = 1 \rightarrow$  collision  $\Rightarrow$  1) use pos 0 and change first Empty to 2

2) set next link of pos 1 to 0

$h(55) = 0 \rightarrow$  collision  $\Rightarrow$  1) use pos 2 and change first Empty to 4

2) set next link of pos 0 to 2

$$h(83) = 6$$

$h(99) = 0 \rightarrow$  collision  $\Rightarrow$  1) use pos 4 and change first Empty to 5

2) set next of pos 2 to 4

$h(24) = 2 \rightarrow$  collision  $\Rightarrow$  1) use pos 5 and change first Empty to 9

2) set next of pos 4 to 5

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$h(100) = 1 \rightarrow \text{collision} \rightarrow$  1) use pos 9 and  
change first empty to 10  
2) set next of pos 5  
to 9

Remove 23.

	0	1	2	3	4	5	6	7	8	9	10
info	100	56	55	3	99	24	83	40	74	100	
next	2	0	7	-1	5	9	-1	-1	-1	-1	-1

56  $\xrightarrow{\text{rehashed}}$  1, next of 100

100  $\xrightarrow{\text{rehashed}}$  0

next of 56 = 0

next of 100 = 2