

Keys = {12, 56, 22, 106, 36, 72, 902, 86, 96, 62, 42}

a]  $h_2(k) = k \bmod 10$

$h(12) = 2$

$h(56) = 6$

$h(22) = 2$

$h(106) = 6$

$h(36) = 6$

$h(72) = 2$

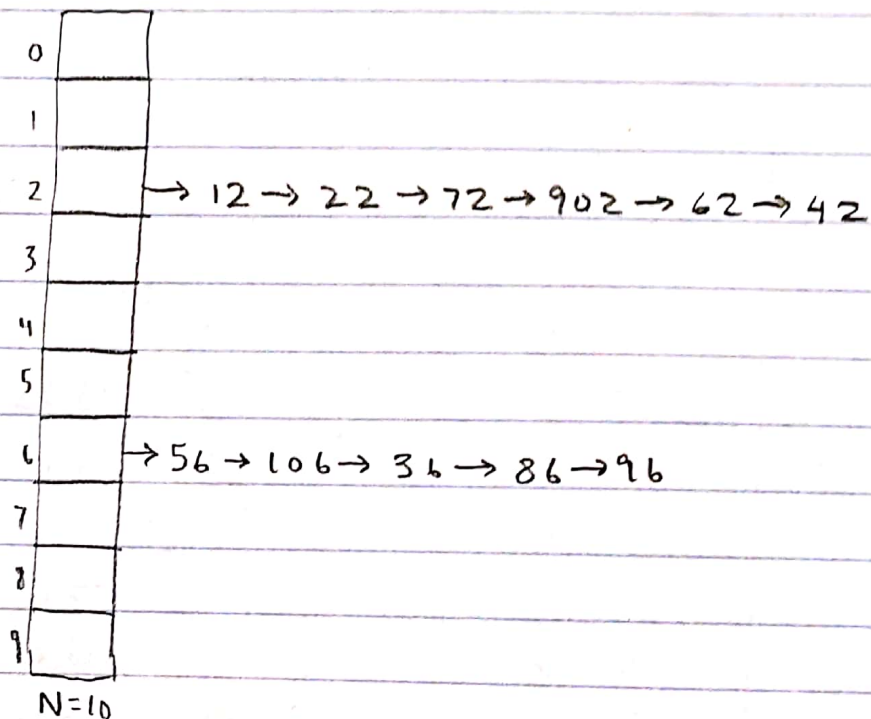
$h(902) = 2$

$h(86) = 6$

$h(96) = 6$

$h(62) = 2$

$h(42) = 2$



b]  $h_2(k) = k \bmod 13$

$h(12) = 12$

$h(56) = 4$

$h(22) = 9$

$h(106) = 2$

$h(36) = 10$

$h(72) = 7$

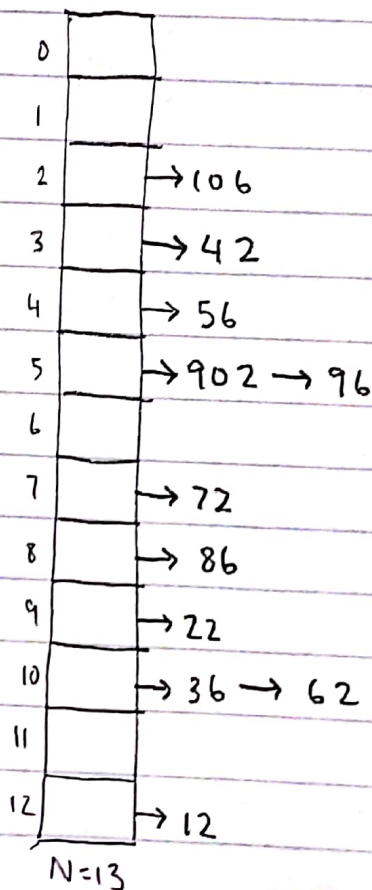
$h(902) = 5$

$h(86) = 8$

$h(96) = 5$

$h(62) = 10$

$h(42) = 3$



c) keys = {12, 56, 22, 106, 36, 72, 902, 86, 96, 62, 42}

$$N = 10$$

$$p = 1009$$

$$a = 125$$

$$b = 342$$

$$h_2(k) = ((125k + 342) \bmod 1009) \bmod 10$$

$$h(12) = 3$$

$$h(56) = 9$$

$$h(22) = 5$$

$$h(106) = 5$$

$$h(36) = 6$$

$$h(72) = 1$$

$$h(902) = 4$$

$$h(86) = 2$$

$$h(96) = 4$$

$$h(62) = 0$$

$$h(42) = 7$$

0		→ 62
1		→ 72
2		→ 86
3		→ 12
4		→ 902 → 96
5		→ 22 → 106
6		→ 36
7		→ 42
8		
9		→ 56