

(OBJ, K)

Person Implement
Keyed.Iterator

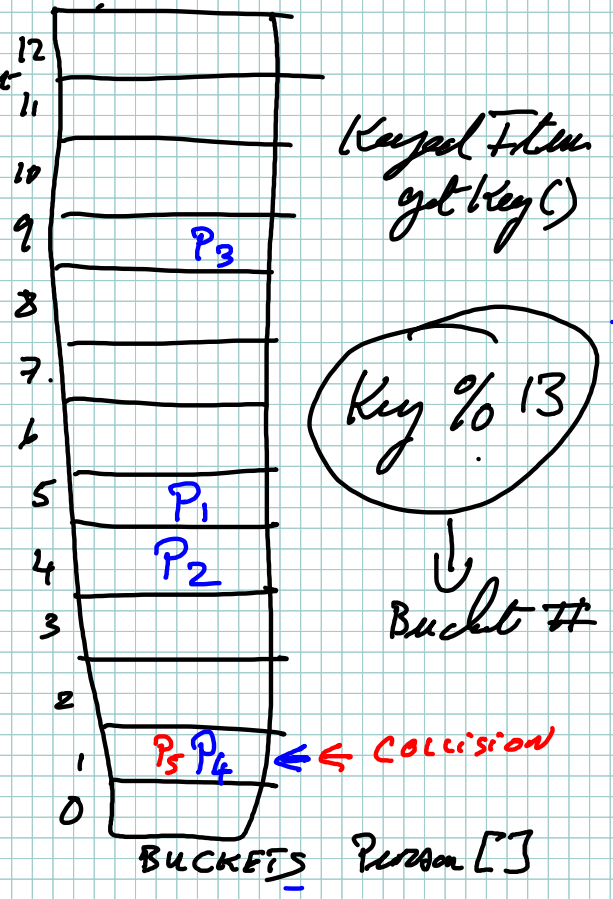
```

Person {
  name
  D.O.B. SS#
  ADDR
  GENDER
  Key
  get key()
}

```

$P_1 (Key=5) - 5 \% 13 = 5$
 $P_2 (Key=17) - 17 \% 13 = 4$
 $P_3 (Key=22) - 22 \% 13 = 9$
 $P_4 (Key=40) - 40 \% 13 = 1$
 $P_5 (Key=53) - 53 \% 13 = 1$

insert (P)
 find (K)
 find (40) $40 \% 13 = 1$



(OBJ, K)

Person Implement
Keyed.Iterator

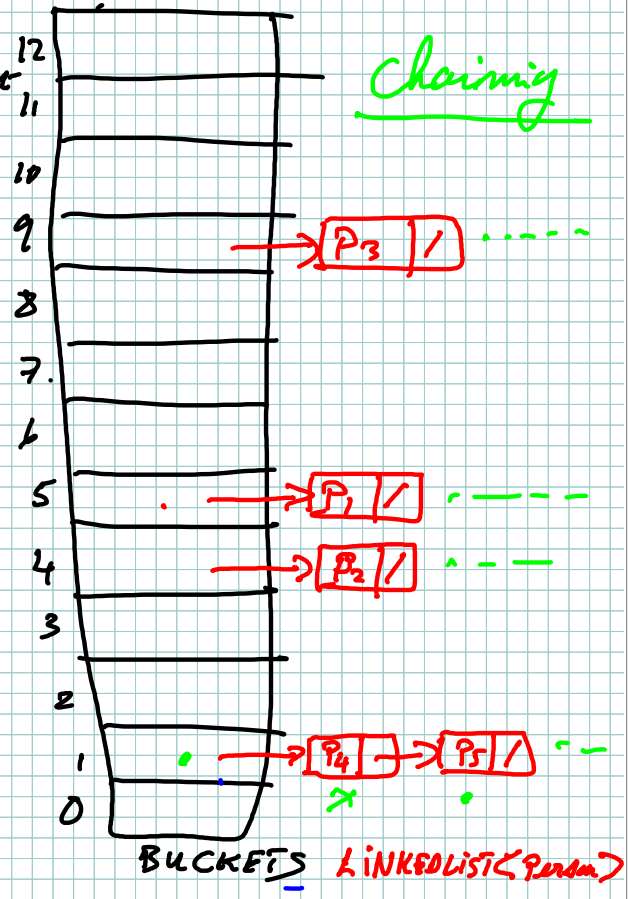
```

Person {
  name
  D.O.B. SS#
  ADDR
  GENDER
  Key
  get Key()
}

```

$P_1 (Key=5) - 5 \% 13 = 5$
 $P_2 (Key=17) - 17 \% 13 = 4$
 $P_3 (Key=22) - 22 \% 13 = 9$
 $P_4 (Key=40) - 40 \% 13 = 1$
 $P_5 (Key=53) - 53 \% 13 = 1$

insert (P)
 find (K)
 find (40) $40 \% 13 = 1$



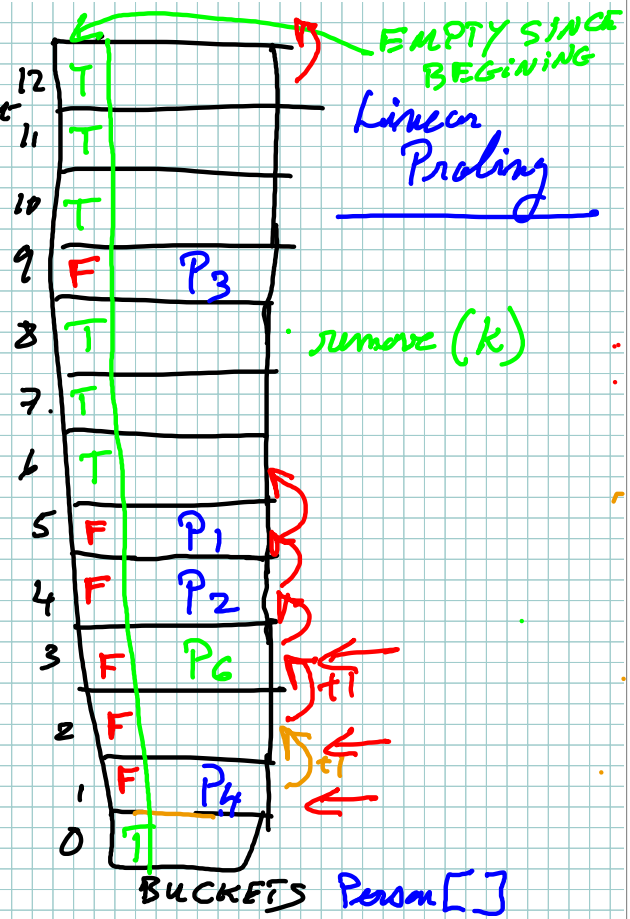
(OBJ, K)

Person Implement
Keyed.Iterator

Person {
name
D.O.B. SS#
ADDR
GENDER
Key
get Key()

$P_1 (Key=5) - 5 \% 13 = 5$
 $P_2 (Key=17) - 17 \% 13 = 4$
 $P_3 (Key=22) - 22 \% 13 = 9$
 $P_4 (Key=40) - 40 \% 13 = 1$
 $P_5 (Key=53) - 53 \% 13 = 1$

insert (P)
 find (k)
 find (40) $40 \% 13 = 1$
 find (14) $14 \% 13 = 1$
 find (66) $66 \% 13 = 1$



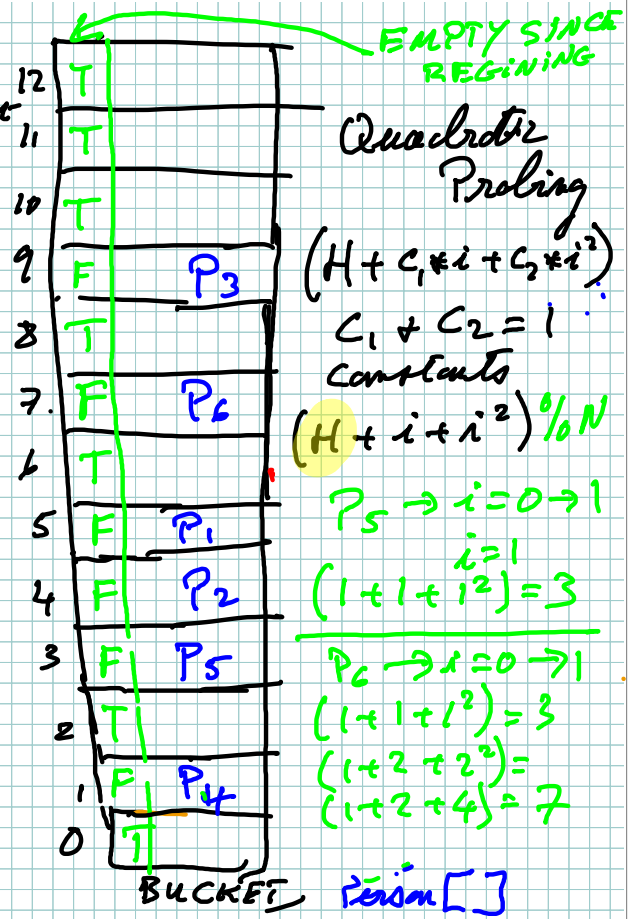
(OBJ, K)

Person Implement
Keyed.Iterator

Person {
name
D.O.B. SS#
ADDR
GENDER
Key
get Key()

P₁ (Key=5) - 5 % 13 = 5
 P₂ (Key=17) - 17 % 13 = 4
 P₃ (Key=22) - 22 % 13 = 9
 P₄ (Key=40) - 40 % 13 = 1
 P₅ (Key=53) - 53 % 13 = 1
 insert (P)
 find (K)
 find (40) 40 % 13 = 1

P₆ (Key=14) - 14 % 13 = 1
 remove (53) 53 % 13 = 1
 find (14) 14 % 13 = 1
 find (66) 66 % 13 = 1



i=0 (1 + 0 + 0²) % 13 = 1 ✓
 i=1 (1 + 1 + 1²) % 13 = 3 ✓
 i=2 (1 + 2 + 2²) % 13 = 7 ✓
 i=3 (1 + 3 + 3²) % 13 = 0

EMPTY SINCE
BEGINNING

(OBJ, K)

Person Implement
Keyed.Iterator

Person {
name
D.O.B. SS#
ADDR
GENDER
Key
get Key()

$H_1 = \text{key}$
 $H_2 = \text{key}/3$

$P_1 (\text{key}=5) - 5 \% 13 = 5$
 $P_2 (\text{key}=17) - 17 \% 13 = 4$
 $P_3 (\text{key}=22) - 22 \% 13 = 9$
 $P_4 (\text{key}=40) - 40 \% 13 = 1$
 $P_5 (\text{key}=53) - 53 \% 13 = 1$
 insert (P)
 find (k)
 find (40) $40 \% 13 = 1$
 $P_6 (\text{key}=14) - 14 \% 13 = 1$
 remove (53) $53 \% 13 = 1$
 find (14) $14 \% 13 = 1$
 find (66) $66 \% 13 = 1$

