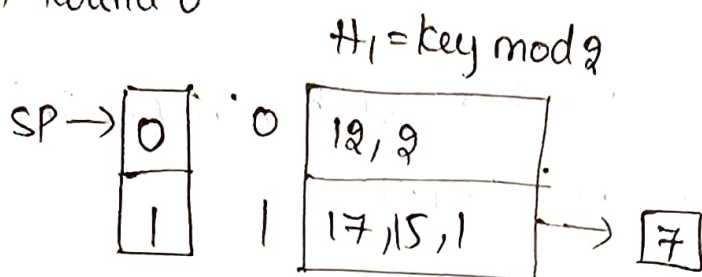


2) 12, 17, 15, 1, 2, 7, 10, 9, 6, 8, 5, 3, 11

Bucket Size = 3

a) Round 0

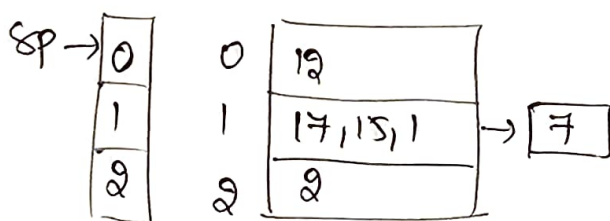


$12 \bmod 2 = 0$
 $17 \bmod 2 = 1$
 $15 \bmod 2 = 1$
 $1 \bmod 2 = 1$
 $2 \bmod 2 = 0$
 $7 \bmod 2 = 1$

Overflow at Bucket 1,

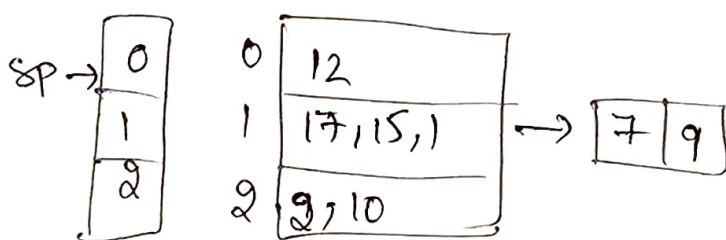
Rehashing at Bucket = 0

i.e., $H_2 = \text{key} \bmod 4$



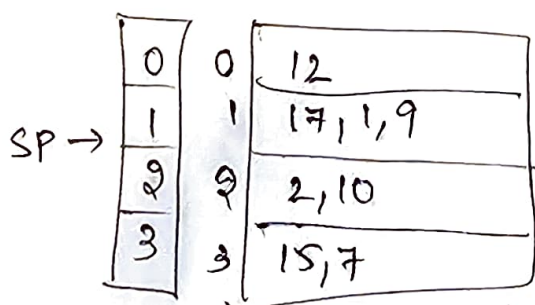
$12 \bmod 4 = 0$
 $2 \bmod 4 = 2$

when we do Rehash SP goes to bucket 1



$10 \bmod 2 = 0$
 $10 \bmod 4 = 2$
 $9 \bmod 2 = 1$

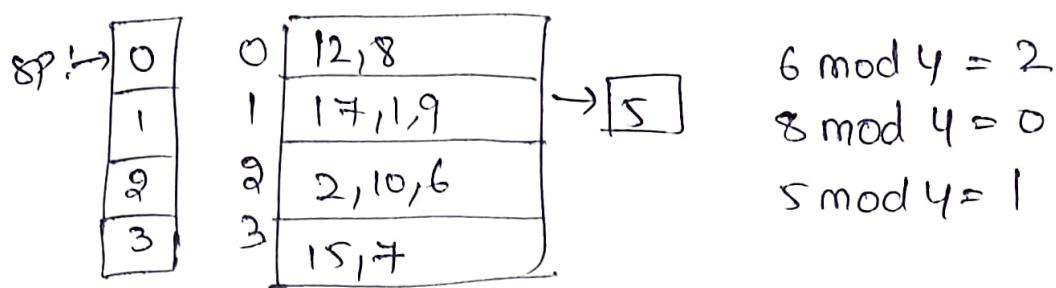
Overflow at Bucket 1, Rehashing at Bucket 1



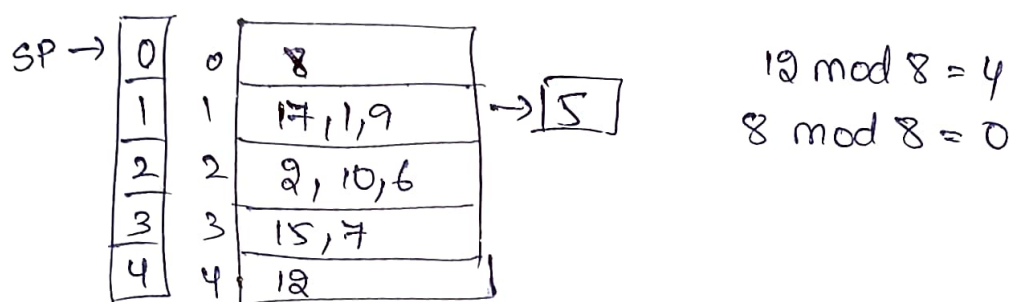
$17 \bmod 4 = 1$
 $15 \bmod 4 = 3$
 $1 \bmod 4 = 1$
 $7 \bmod 4 = 3$

← End of Round 0 →

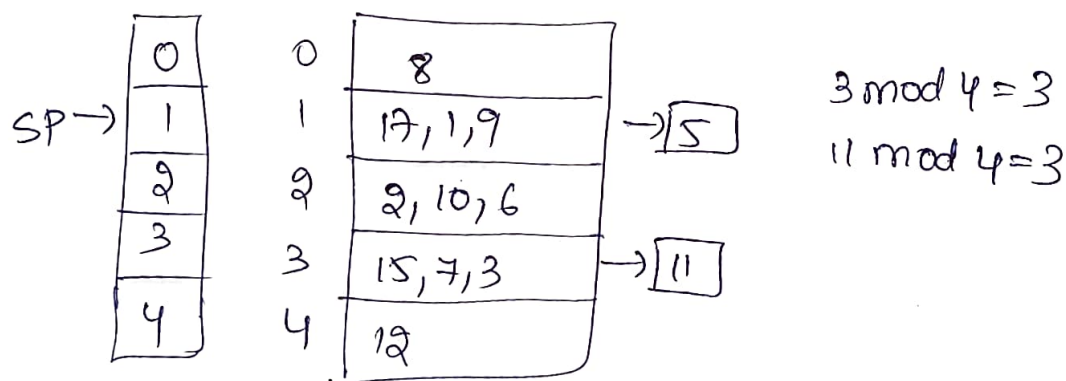
b) Round 1 : SP goes to Bucket 0, $H_2 = \text{key} \bmod 4$



overflow at Bucket 1, Rehashing at Bucket 0
 i.e., $H_3 = \text{key} \bmod 8$



when we do Rehash, SP goes to bucket 1



overflow at Bucket 3, Rehashing at
 Bucket 1 key mod 8