

Elements to insert: 0, 1, 8, 9, 52, 44, 56, 53.

61, 64.

① Linear probing:

index: 0 1 2 3 4 5 6 7 8 9 10

[ 0 1 44 56 53 64 61 8 9 52 ]

② Quadratic probing:

index: 0 1 2 3 4 5 6 7 8 9 10

[ 0 1 52 64 44 56 61 8 9 53 ]

③ Double hashing:

index: 0 1 2 3 4 5 6 7 8 9 10

[ 64 52 1 8 56 44 0 9 61 53 ]

#### ④ Chaining .

index 0  $\rightarrow$  0  $\rightarrow$  44  $\rightarrow$  NULL

index 1  $\rightarrow$  1  $\rightarrow$  56  $\rightarrow$  NULL

index 2  $\rightarrow$  NULL

index 3  $\rightarrow$  NULL

index 4  $\rightarrow$  NULL

index 5  $\rightarrow$  NULL

index 6  $\rightarrow$  61  $\rightarrow$  NULL

index 7  $\rightarrow$  NULL

index 8  $\rightarrow$  8  $\rightarrow$  52  $\rightarrow$  NULL

index 9  $\rightarrow$  9  $\rightarrow$  53  $\rightarrow$  64  $\rightarrow$  NULL

index 10  $\rightarrow$  NULL