(int/long) hash code function h: Keys -> Hashes (many by 1) (x,v) (k > h(k)

Resside) 1 given (teg, value) pair, and h(F) (2) map ln(K) to index in array (eg) Inck) / array_length = modex of h(k) in array M(K) > Same vider in array

Index i

| Index i

| Index i

| Index i

| Key, rathe) gains

Retner

find d(K),

O ful h(x)

1 frod i = vdex corresponding to h(k)

3) in arric] - linked list, search for k
and rekneve its value

10 collisions high $\Rightarrow O(N)$ run have $N = \# \int teys$

endrus quisal (1)0 (= nim/ and encisilla de #

(linked list at each arorti) = constant leight)

another option:) unstead of arrows, used balanced Linary search tree. O(log N)
100t up time.