



HASH TABLE - DATA STRUCTURE TO STORE KEY VALUE PAIR

- SEARCH IN A WAY THAT ALLOWS QUICK SEARCH AND RETRIEVE

- ADD PAIRS - FAST TO COMPUTE

- DELETE PAIRS - AVOID COLLISION

| KEY     | VALUE |
|---------|-------|
| 'ONE'   | 1     |
| 'TWO'   | 2     |
| 'THREE' | 3     |
| 'FOUR'  | 4     |
| 'FIVE'  | 5     |

HASH FUCT (KEY) → INDEX

$KEY[0] \% ARRAY\_LENGTH$

$O(1)$   
TIMES ON  
AVERAGE

COLLISION

- LINKING (CHAINING)

- OPEN ADDRESSING

\* LINEAR PROBING (CHECK NEXT ELEM.)

\* DOUBLE-HASHING (CHECK EVERY 3rd)