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HASHTABLE CHAINING

INSERT (X)

TABLE [getHash(x)]. INSERT(x);

DUPLICATES? - SEARCH FIRST (INGENERAL)

* FOR OUR ASSIGNMENT, DO NOT TEST FOR DUPLICATE

3 STULES OF HASTING FUNCTIONS IN - DATA SIZE

IF USED USE A PRIME NUMBER FOR SIZE

1 hash(K) = K& m & DIVISION METHOD (SHITTY)

(CONSTRAINS BEST TABLE SIZE SELECTION

2 hash (K) = [m*(K*c - Floor(K*c))] C Trace LIKE A % LOCATION

MULTIPLICATION METHOD (GOOD) (WHAT WE USE)

3 UNIVERSAL HASHING

-> PICK CONSTANT C AT RUNTIME

HOW TO CHOOSE A CONSTANT C

- -) IMPORTANT
- -> INDEPENDENT OF SIZE
- CHOOSE A CTHAT MINIMIZES CULLISIONS
- PICK A GOOD VALUE THAT IS LIKELY TO WORK WELL WITH UNKNOWN DATA
- -> RECOMMENDATIONS: 1 & 0.61.8034

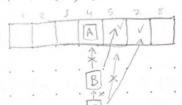
GOLDEN RATIO: 0+1=02

(15-1)/2

DPEN ADDRESSING

METHOPS:

> h'(k,i) = h(k) + i % m



CAUSES PRIMARY CLUSTERIN

DUADRATIC PROBE

> h'(K) = h(K) + i * C, + i * C2 %

> WHERE C, AND CE ARE NOW - D. CONSTANTS

CHOICE IS IMPORTANT (RELATIVELY PRIME)

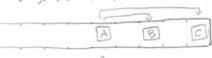


" ACCELERATES ELEME LOTS OF SMALL TLAFFIC

(NOT HORPIBLE, BUT DON'T USE

DOUBLE HASHING

- h'(K),i)= h(K)+i*h2(K) %m ~ PREVENTS PRIMARY AND SECONDAM



BEST SOLUTION