Implementing own hush tuble with open addressing linear probing

Hust table. All elements are inserted in the table itself, so size of table is equal to or greader than number of elements.

found. Once it is found insect to

search (k) - keep probing until slot's leaf doesn't

Process is simple, user gives a Ckey, value) pair set us input and based on the value generated by hush function an index is gonerated to where the value corresponding to the particular key is characters. So time complexity is close to O(1)

tempelate < typename 1, typename V> class Hash Node / Hush Node class

Keti HaghNode (kkey, V balse)

this > value = value; this > key = key:

class HackMap / Hash Map class HashNodeck, u) ** arr; intapacity; int size // current size Hush Voice Hash Map () capacity = 20; // Define an initial capacity are- new Hack Node < k, V) + [capacity]; for Cinties; ic capacity; (4+) ariti3= MUL, int hush (ale (k key) return key 1. capacity; void insert Note (le 1004, V value) HuchNode < k V2 * temp= new HoshNule < k V2 (key, who) While Cariffichelader I! NULL

while Car [hashlades] = NULL & ar [hashlades] -> leggle = - 1) leturn NULL; // It not tound return convil hush Index++; hushIndex 1 = capacity; 11 If new node to be inscreted increases the current size if Carifhush (alex) == NOIL 11 arifhush (adex) - lay ==) Sizett; air [hushIndex] = temp; 11 Function to search the value for a given key V get (int key) int hushlader = hushlade(key); int counter = 0; while (arc[hush|ndex]! = NWLL) int counter=0; if (counter++ > capacity) return NULL; if (arithushladex]= ley) return aughanholer] > value; hushladex x+, hulhloder 1. = Capacity