Berlie Belgin private List I terator < Entry < K, V>>> find (K key) [int index = key. hash Coole () % CAPACITY; Unled List (Entry (K, V) > temp = new Linhed List (Entry <K, V))();

List Iterator (Entry true) temp Itr = table [Index], list I terator (); while (temp Itr. has Next ()) { Entry < K, V) e = tempItr. rext(); if (e. getkey(). equals(key)) temp-add(e);

= return temp. list I tender ();

a) Linked list is prévable in the situations where we make so much insertions and removals to a linear data structure since there is no reed to shifting operation unlike arrays.

If there is a situation where there will be so much get operations to the dota structure, it may not be profesoble since it is not possible to binary search a linked list or get an element in a constant time except root.

b) It is preferable when we hold a comparable data. Where we hold our data in a binary search tree but it also rebalances itself. It has a dynamic size and can get elements in logic

Berlie Belgin distinct kodes from some property of elements.

By this distinct cooler, we can determine the index in an array. So in the situations where the datas are as much as unque, it is preferable to use hashing since we can reach element with knowing only the abject itself by getting index with its hashcode. It is not preferred if the elements are not distinct memory size is limited since hashing requires large

d) we use heap where we want to represent our Brown Tree in an array we profer heap when we want to make Bedth-First-search operation for example, since getting any element in teap is constant when we know its index in the orray. We can search, traverse tree freely without