

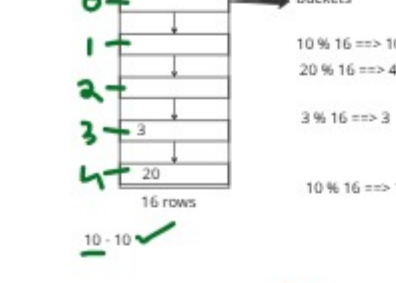
HashSet
==> stores unique elements
==> to check for a particular element in a faster manner

[10, 20, 30, 50, 60, 100]
java please check whether element 100 is available
OR not
search for a particular element ==> HashSet

1000 elements ==> 40 ==> 1s
10000 elements ==> 40 ==> 1s
100000 elements ==> 40 ==> 1s

HasSet ==> [10, 20, 30, 40, 70, 3, 100]
element = 10

HashSet internally stores the data inside a HashTable



10 - 10 ✓
if (dataSet.contains(10))
{
 add
}

MOVE ZEROES
[0, 1, 0, 3, 12]

[1, 3, 12, 0, 0]

[0, 1, 0, 3, 12]

iterate each zero element ==> dont do
non zero element ==> operation

[1, 1, 0, 3, 12]

[1, 3, 0, 3, 12]

[1, 3, 12, 3, 12]

[1, 3, 12, 0, 0]

Whenever we encounter first non zero element

==> kept at the 0th index

Whenever we encounter second non zero

element ==> kept at the 1th index

.....

[0, 0, 4, 0, 5, 6, 9, 0, 2]

[4, 5, 6, 9, 2, 0, 0, 0, 0]

[100, 4, 200, 1, 3, 2]

[100, 4, 55, 101, 102, 1, 3, 2, 103, 10, 11]

1 ==> 2 ==> 3 ==> 4
10 ==> 11
100 ==> 101 ==> 102 ==> 103
55

[100, 4, 200, 1, 3, 99, 101, 2]

iterate through each element

i = 100 - 1 ==> 99

99 - 1 ==> 98

["eat", "tea", "tan", "ate", "nat", "bat"]

↓

[
 ["bat"],
 ["nat", "tan"],
 ["ate", "eat", "tea"]
]

["eat", "tea", "tan", "ate", "nat", "bat"]

eat ==> ['e', 'a', 't'] ==> sorting ==> ['a', 'e', 't'] ==> string ==> "aet"
tea ==> ['t', 'e', 'a'] ==> sorting ==> ['a', 'e', 't'] ==> string ==> "aet"
tan ==> ['t', 'a', 'n'] ==> sorting ==> ['a', 'n', 't'] ==> string ==> "ant"
ate ==> ['a', 't', 'e'] ==> sorting ==> ['a', 'e', 't'] ==> string ==> "aet"
nat ==> ['n', 'a', 't'] ==> sorting ==> ['a', 'n', 't'] ==> string ==> "ant"
bat ==> ['b', 'a', 't'] ==> sorting ==> ['a', 'b', 't'] ==> string ==> "abt"

new HashMap()
{
 "aet": ["eat", "tea", "ate"]
 "ant": ["tan", "nat"]
 "abt": ["bat"]
}

[
 ["eat", "tea", "ate"],
 ["tan", "nat"]
 ["bat"]
]

int[] marks = { 10, 30, 40, 50, 60 }

int[] marks = { }

int[] marks = new int[]

Arrays can be used to store the data, if we exactly know

how many values we need to store.

int[] marks = new int[10]

abcabcbb
3

pwwkew
HashSet
wke
2
3

abcabcbb

abcbbg