

classfellow

Ensurt 1) = (7(11)+5) mod 20 = (77+5) mod 20=82 mod 20=2 Ensurt 11 into 2nd slot index

2novit 18 h(18) = (7(18) + 5) mod 20 = 11 2novit 18 into e11th stat index

2nout 3 h(3)= (7(3)+5) med 20 = 6 2nout 3 into 6th index

2nout 8 h(8) = (1(8) + 5/mod 20 = 1

Do, hash table, or or or or

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	8			Input 5
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	10			s to atm 2 typical
	11	18		
	12			
	13			

95)	
A5-	To achieve efficient Set ADT, we can use hybrid data skurture such as AVL true which is morture of balanced
	skucture such as AVL tree which is moeture of balanced
	binary search teres and hash table.
a	· Data Storage in Memory: - We can use how table to
	Store values in different buchets with separate chairing for
	Collision resolve. It will store reference to nodes in BST.
	We will use AVL true to store elements so that in worst
	case complexity (0 log(m), we can search elements officiently.
	W OF ST
6)	Clanent Searching: First, hash element to find coversponding
	bucket with time complexity of O(1). If bucket is employ
	element is not present of it's not empty, we follow pointer
	to next node in balanced true which complexity of ( o login).
	for word case.
c)	Insert new elements: First, find hashvalue of element to
	find its bucket which takes linear O(1) time complexity.
	I louchet is empty, create new mode in BST. Of a it abroady
	has bucket referre, insert it there which takes O(login)
	maintaining its balance.
	Il repashing requires, bash table groves and elements are
	El rehashing requires, hash table groves and elements are rediskributed to new modes and remains balanced.