Satu Structurers

28/03/23)

Gatu Structurers

Harring: 9t also a Searching technique.

What is set?

9t is a Gillection of objects themself are Called Elements.

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N= {1,2,...N}

For Snu = A Set of natural numbers N= {1,2,...N}

Set of non-negative Even numbers

N= {0,2,4,6,8}

Less them to.

Elements of set.

A= {11,12,13,....}

Set of all numbers greater than 10.

$$A = \{ 1, 2, 3, 4, 5, 6 \}$$

$$B = \{ 2, 4, 6 \}$$

$$AVB = \{ 1, 2, 3, 4, 5, 6 \}$$

$$ANB = \{ 2, 4, 6 \}$$

$$A - B = \{ 1, 3, 5 \}$$

$$B - A = \{ 4, 3, 5 \}$$

The bit string of the sets {1,2,3,4,5} and {1,3,5,7,9} are

1111100000 and 1010101010 suspectively. We bit string

find the union and subsection of sets.

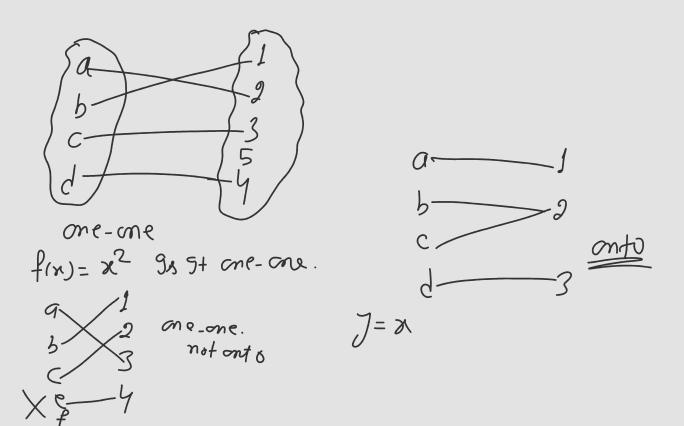
A= {1,2,3,4,5} = 11111100000

B= {1,3,5,7,9} = 1010101010

ANB={
3=1010100000

The one of onto

one-one 4 onto  $f(x_1) = f(x_2)$  of  $x_1 = x_2$ 



mulfilets:

$$A = \left\{ 1, 1, 1, 2, 2, 3 \right\}$$

$$S = \left\{ 3, 1, 9, 2, 1, 3 \right\}$$

$$A + B = \left\{ 1, 1, 1, 2, 2, 3, 3, 4 \right\}$$

$$A + B = \left\{ 1, 1, 1, 2, 2, 3, 3, 4 \right\}$$

$$A - B = \left\{ 1, 2, 2 \right\}$$

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$$A - B = \left\{ 1, 2, 2 \right\}$$

$$S = \{n_1, q_1, n_2, q_2, n_3, q_3, \dots, n_s, q_s\}$$

$$A = \{1, 1, 1, 2, 2, 3\}$$

$$B = \{1, 1, 4, 3\}$$

$$A = \{1,1,1,2,2,3\}$$

$$= \{3,1,2,2,1,3\}$$

$$A + B = \{1,1,1,2,2,3,3,4\}$$

$$A + B = \{1,1,1,2,2,3,3,4\}$$

$$A + B = \{1,1,1,1,2,2,3,3,4\}$$

$$A = \{3.4, 2.6, 1.6\}$$

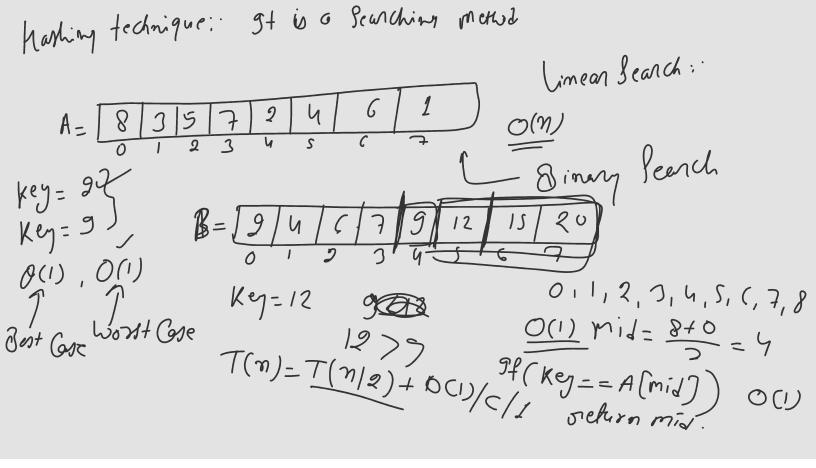
$$B = \{9.a, 3.6, 4.d\}$$

$$AUB = \{3.a, 3.6, 1.6, 4.d\}$$

$$ANB = \{2.0, 2.6\}$$

$$A-B = \{10, 1.6\}$$

$$B-A = \{15, 4.d\}$$



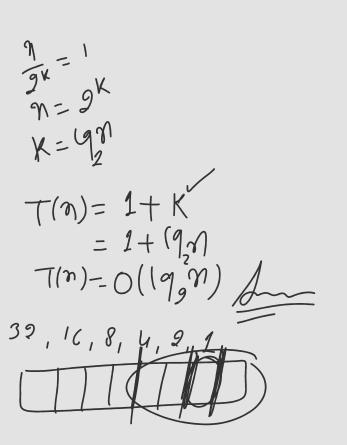
$$T(n) = T(n|2) + 1$$

$$O(19n)$$

$$T(n) = T(n|2) + 1$$

$$T(n|2) = T(n|4) + 1$$

$$T(n|4) \neq T(n|8) + 1$$



$$T(n) = T(n|2) + 1 \Rightarrow T(n|3) + 3$$

$$T(n|2) = T(n|4) + 1 \Rightarrow T(n|2) = T(n|8) + 2$$

$$T(n|4) = T(n|8) + 1 \Rightarrow T(n|2) = T(n|8) + 2$$

$$T(n|4) = T(n|8) + 1 \Rightarrow T(n|2) = T(n|8) + 2$$

$$T(n|4) = T(n|8) + 3 \Rightarrow T(n|2) = T(n|2)$$

$$T(n) = T(n|2) + 3 \Rightarrow T(n|2) = T(n|2)$$

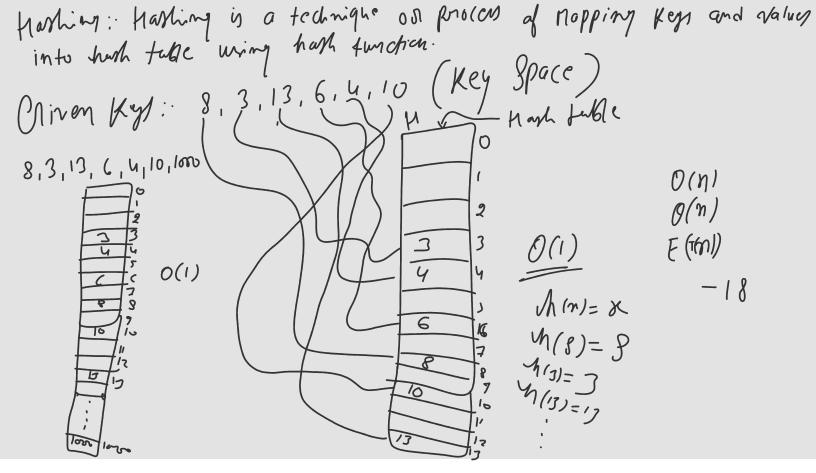
$$T(n) = T(n|2) + 3 \Rightarrow T(n|2) = T(n|2)$$

$$T(n) = T(n|2) + 3 \Rightarrow T(n|2) = T(n|2)$$

$$T(n) = T(n|2) + 1$$

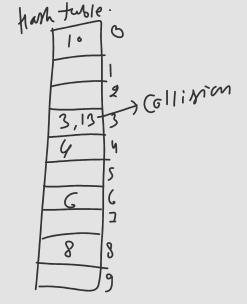
$$T(n|2) + 1$$

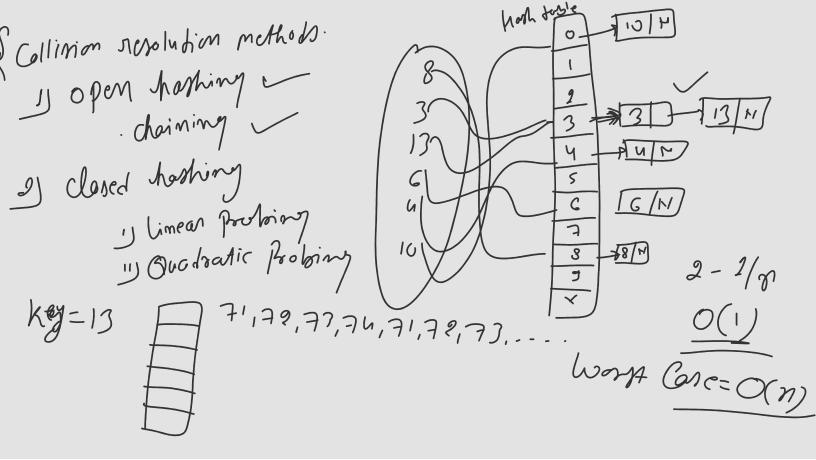
$$T(n|2)$$

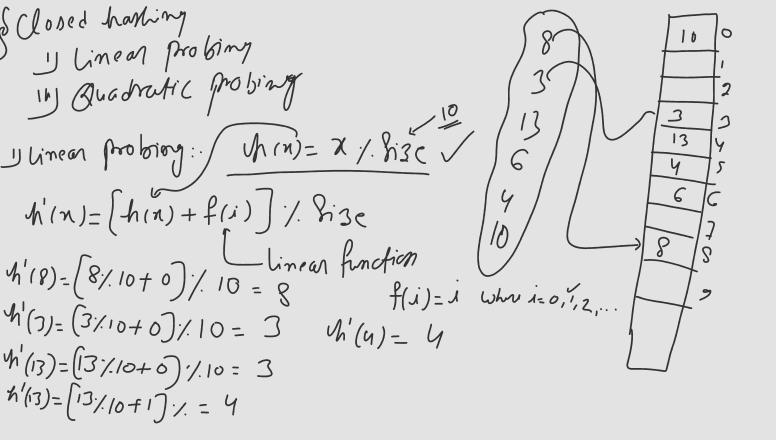


Modrfied ham function:  $M(x) = x \cdot / 8i3e$ .  $M(8) = 8 \cdot / 10 = 8$   $M(3) = 3 \cdot / 10 = 3$   $M(3) = 13 \cdot / 10 = 3$  $M(6) = 6 \cdot / 6 = 6$ 









Squadratic (probing:

$$A^{1}(n) = [h(n) + f(i)] / hige$$
 $A^{1}(n) = [8/10 + 0] / ho = 8$ 
 $A^{1}(3) = [8/10 + 0] / ho = 3$ 
 $A^{1}(3) = [3/10 + 0] / ho = 3$ 
 $A^{1}(3) = [3/10 + 0] / ho = 3$ 
 $A^{1}(13) = [3/10 + 0] / ho = 3$ 
 $A^{1}(13) = [3/10 + 1] / ho = 3$ 
 $A^{1}(13) = [93/10 + 1] / ho = 3$ 
 $A^{1}(23) = [93/10 + 1] / ho = 3$ 
 $A^{1}(23) = [93/10 + 4] / ho = 3$ 
 $A^{1}(43) = [43/10 + 3] / ho = 3$ 

