

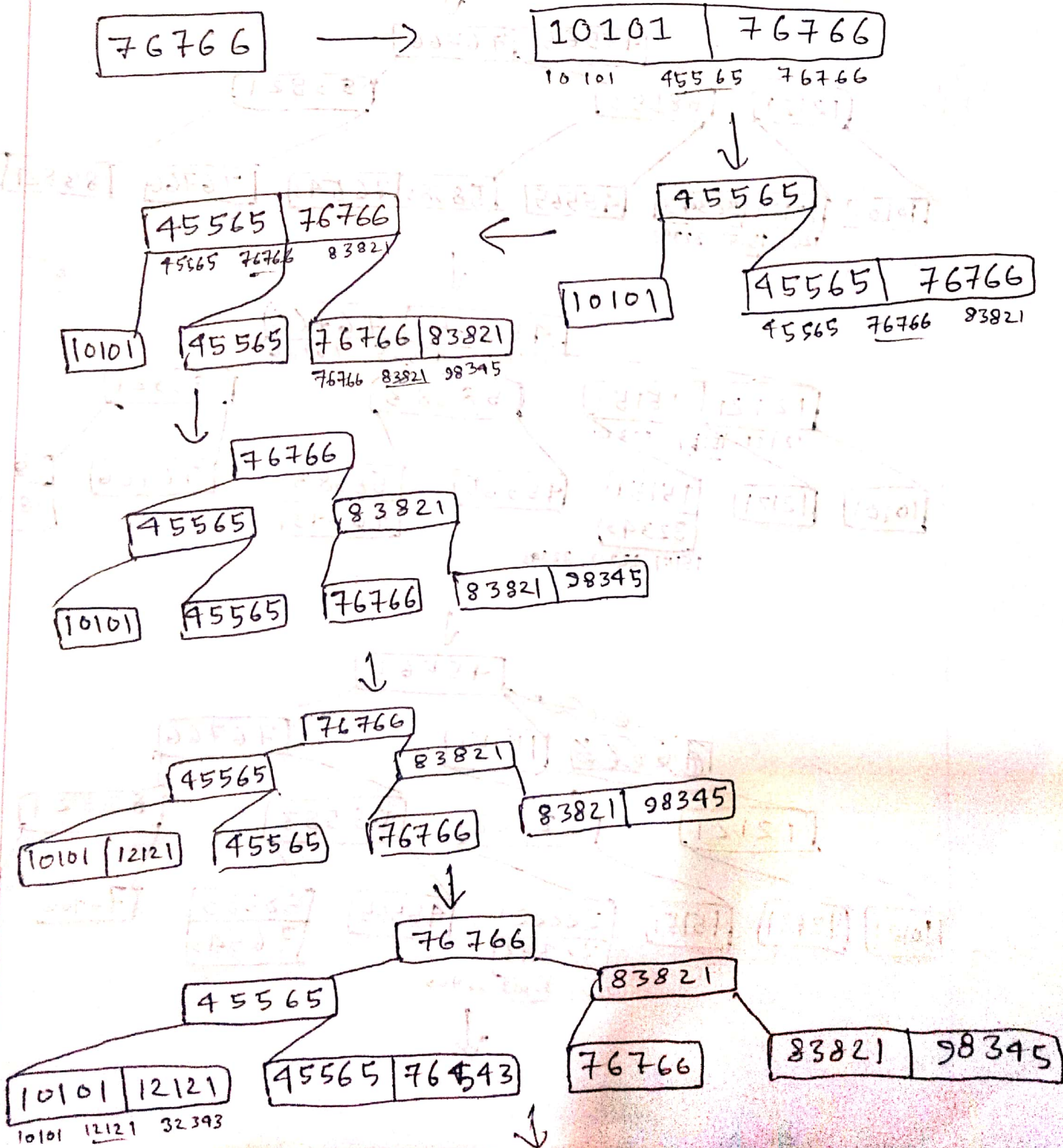
Name : Uday Saha

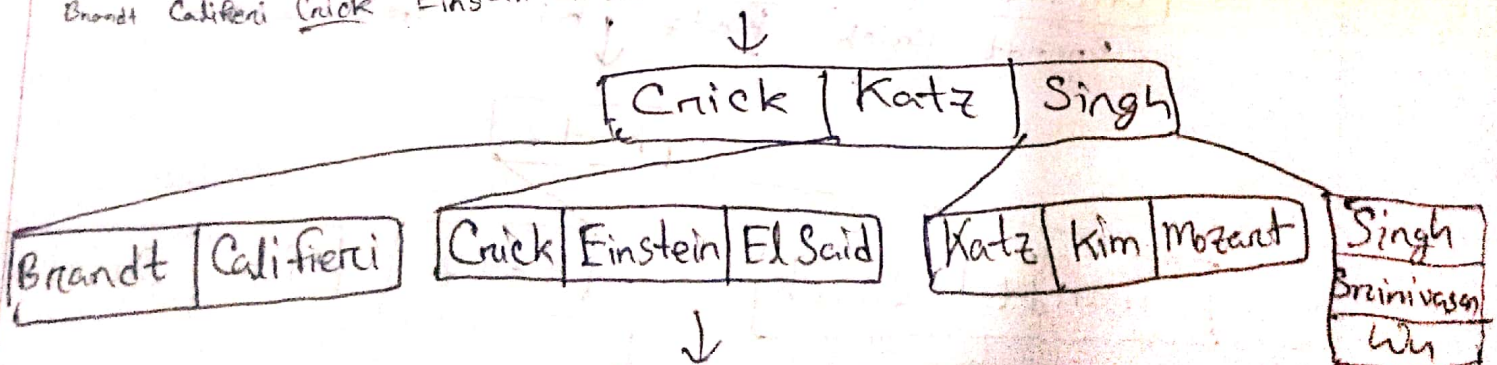
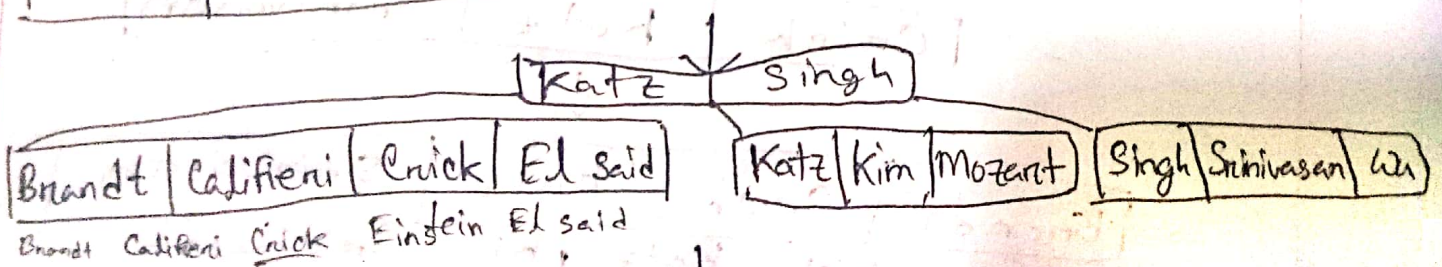
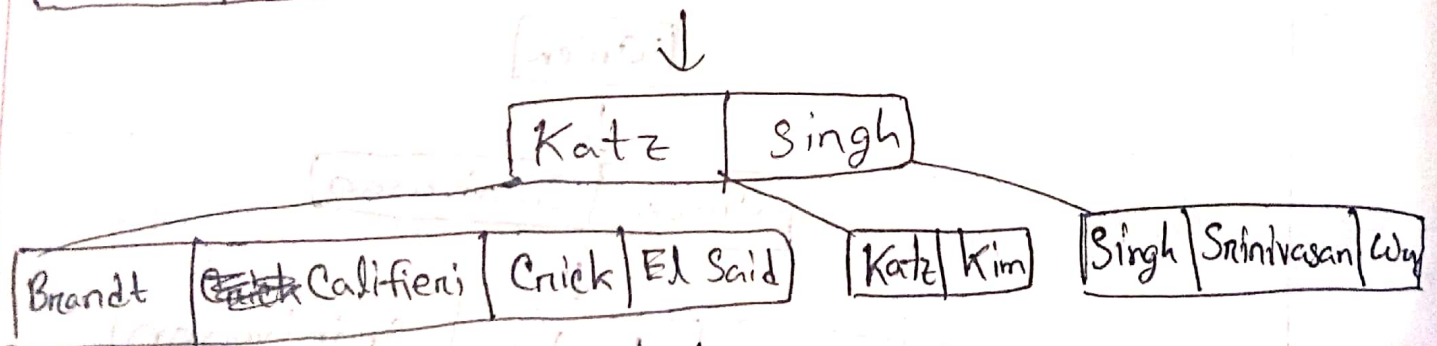
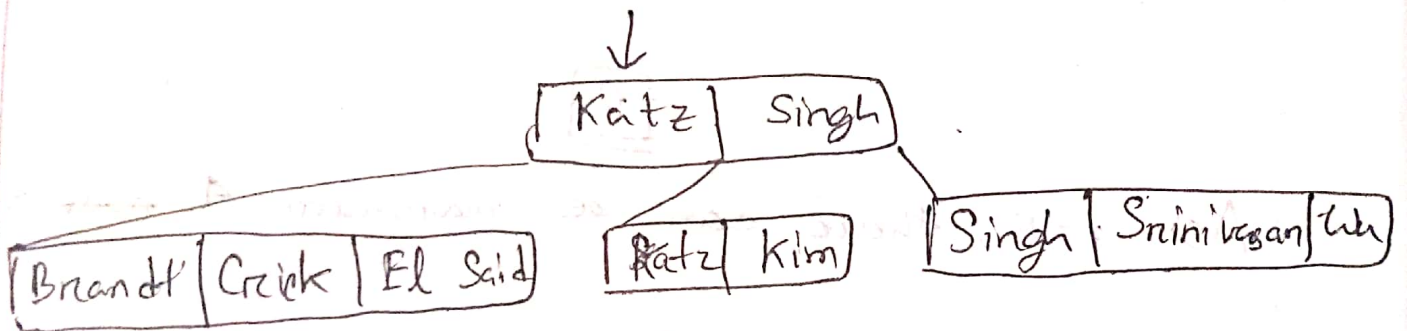
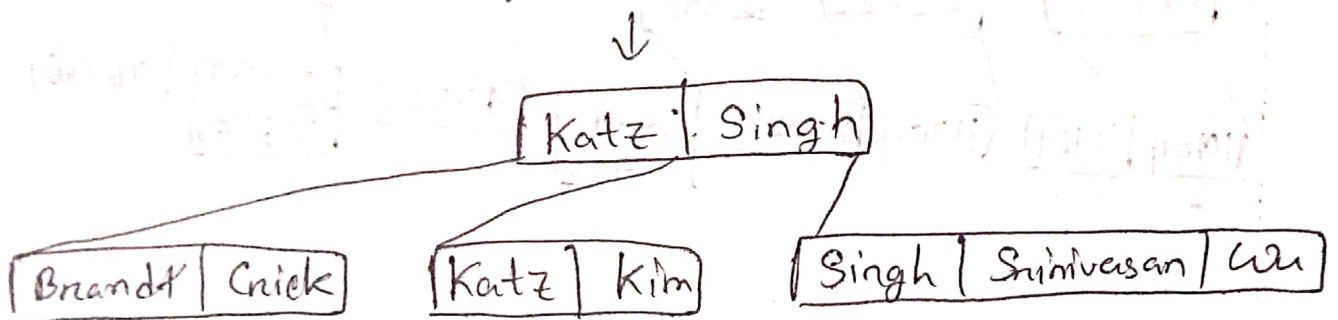
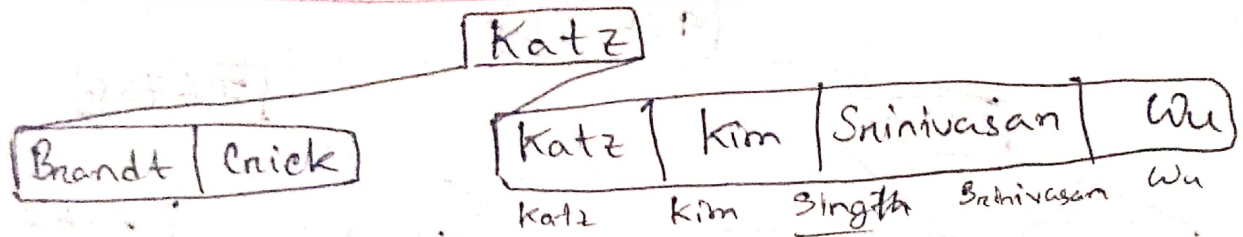
ID : 23341134

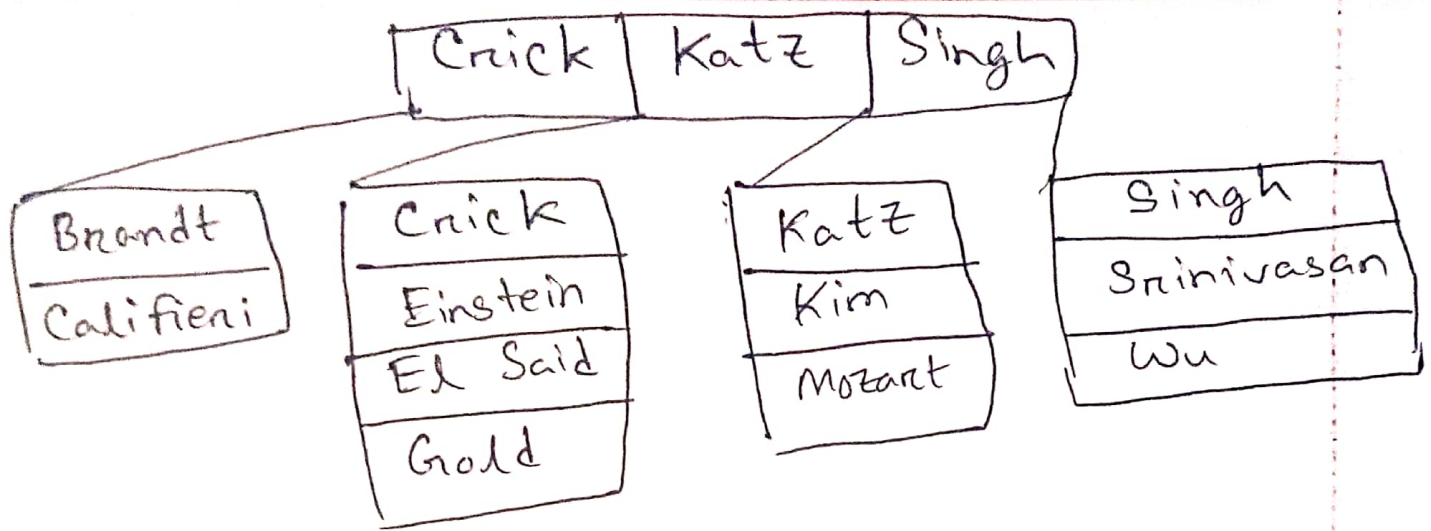
Section : 07

Ans to the ques no:- 1 (A)

As, $n=3$, so there will be maximum 2 values in each node.







Ans to the ques no:- 2

bucket 0

12121	
33465	

bucket 1

83821	
98345	

bucket 2

bucket 3

10101	
22222	

32343	
58583	

12121	Wu	...
33465	Gold	...
83821	Brandt	...
98345	Kim	...
32343	El Said	...
58583	Califieri	...
10101	Srinivasan	...
22222	Einstein	...

$$(7+6+7+6+6) \% 7 = 4$$

$$(4+0+0+0+1) \% 7 = 3$$

$$(4+5+5+6+5) \% 7 = 4$$

$$(8+3+8+2+1) \% 7 = 1$$

$$(9+8+3+4+5) \% 7 = 1$$

bucket 4

76766	
45565	

76543	

76766	enlk
45565	Katz
76543	Singh

bucket 5

bucket 6

15151	

15151	Mozart	...
-------	--------	-----

$$(1+2+1+2+1) \% 7 = 0$$

$$(7+6+5+4+3) \% 7 = 4$$

$$(3+2+3+4+3) \% 7 = 1$$

$$(5+8+5+8+3) \% 7 = 1$$

$$(1+5+1+5+1) \% 7 = 6$$

$$(2+2+2+2+2) \% 7 = 3$$

$$(3+3+4+6+5) \% 7 = 0$$