Please use linear Probing to insert the following numbers to hash table (Initial table size is 10). W 19 97 74 10 54 20 7 87 52 44 23 11 78 98

6	Hash indea for 10 is 0 and 40 is already at index	Ñ.	0 12	9	0	ŭ.	ō	Fox	indea	fash
	39 10 % 10 = 0	20		67		-	74	(7	0
	39 74 % 10 = 4	وي		67		-	74		+	5
	40 % 10=0				1	 	1		-	40
	9 39 % 10= 9	وي		67		+				
	67 %10=7			67		-			-	
	8 9 Marh Index	ىد		7	2 3 4 5 6 7	N	4	W	2	0
1			1	1	1	+				

need to double the table six from 10 to 20 because adding 54 would make the loading factor to 80 % which is greater than 50 % and 40 is already at Index o,

80 07	20 20	40 20	5	5	5	5	-		
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7 8	1		-		-	_	_	-	0
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74	74	74	74	74	74				2
14 54	2	13	2						vi
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سا	تر)	(va	10	دما	W	-	Lu Lu	+	00
2	ما	39	وقا	9	ن ا	1	39 3		T E
1%	39 7 1/20=7	20%	54%	0 /0	74 %	40 % 20 -0	9 %	7%	ash I
39 87 % 20 =7		20%20=0	16=14	39 10 / 20=10	74 % 20= 14	0:0	39 % 20=19	67 1/20=7	17 18 19 Hash Indux
9/20=45%	8/w=40%	1/20=35%	39 54% 20=14 6/20-30%	5/20=25%	4/20=20%	3/20=15%	2/20-10%	1/20=51/0	Load factor

need to double toble size Steps required to find 23: _ J K a \vec{o} = = 11/12/18/19/18/19 Bucket 23: 23 % 40 = 20 4 22 23 24 4 26 27 28 29 30 31 Z tound 6) w 39 40 7.40 3/40= 39 541,40 6/40= 78 39 98/14015/40= 39 39 % 40 39 -10 35 87 1.40 9/40= 8 39 = 38 30.5% EL B 39 52%40 10/40= 39 71.40 9/40= 39 44/140 11/40= 39 11/40 13/40= 39 23/40 12/40= 04/01 74%40 4/40= = 34 10% Takt = 27 =23 30% 151.0c 81= 17.5% 20% 5/40= 2/40= 125% 10% 1/40= 2.5%

Scanned with CamScanner