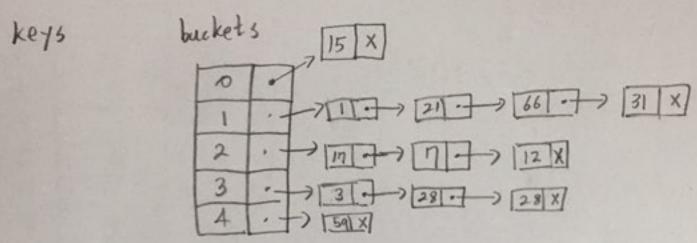
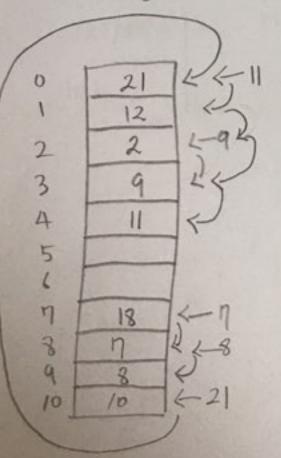
Algorithms Report 2. 2019311188 233.

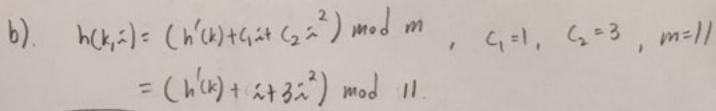


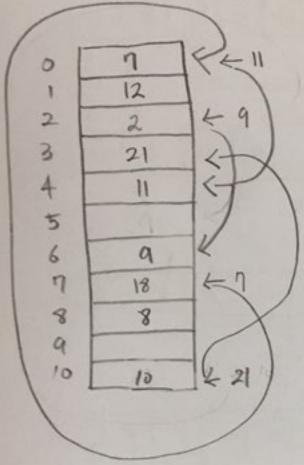
2.
$$\frac{\text{kets}}{\text{h(k)} = \text{k mod m}} 2 18 9 7 12 10 21 11 8}{\text{m=11}}$$

a). Using linear probing with h(k,i) = (h(k)+i) mod m



h(k) -> m-1 かり 1世母 弘本 亨
0 -> h(k)-1 か2 1世母 弘本。





$$h(9,1) = (h(9) + 4) \mod 11$$

$$= 6 \mod 11$$

$$= 6$$
 $h(9,1) = (h(9) + 4) \mod 11$

$$= (9 + 4) \mod 11$$

$$= 0$$
 $h(21,1) = (h(21) + 4) \mod 11$

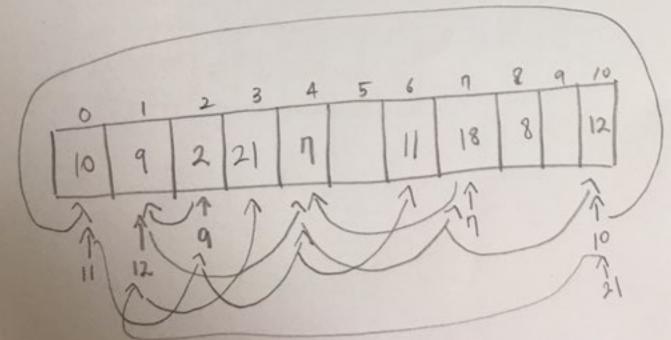
$$= 14 \mod 11$$

$$= 3$$
 $h(11,1) = (h(11) + 4) \mod 11$

$$= (9 + 4) \mod 11$$

c).
$$key5$$
, 2 18 9 7 12 10 21 11 8 $h_2(k) = 1 + (k \mod 10)$ 3 9 10 8 3 1 2 2 9.

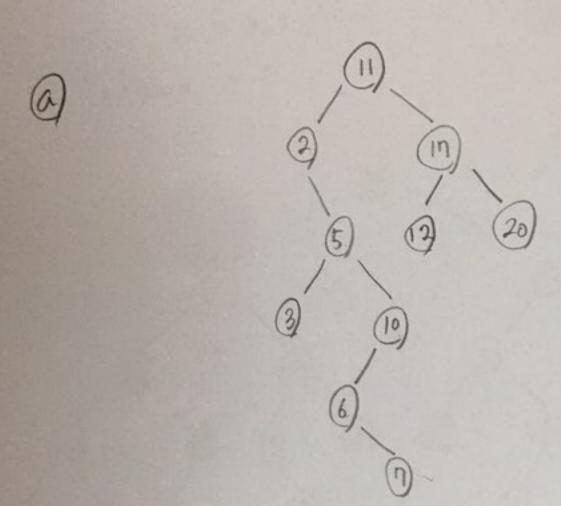
h(k,ふ)=(h'(k)+ h, (k)) mod 11. : 知るの T[h(k)] を はない, 語の 以外の は いました。

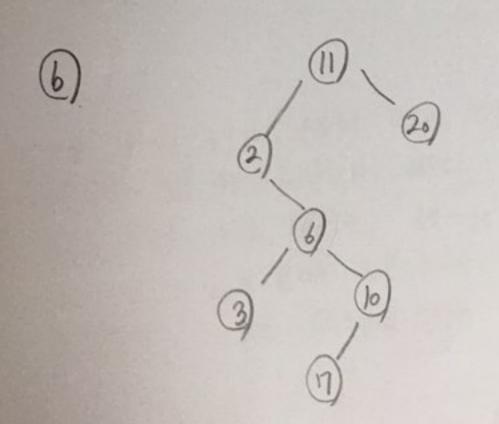


16 12 15

11/13

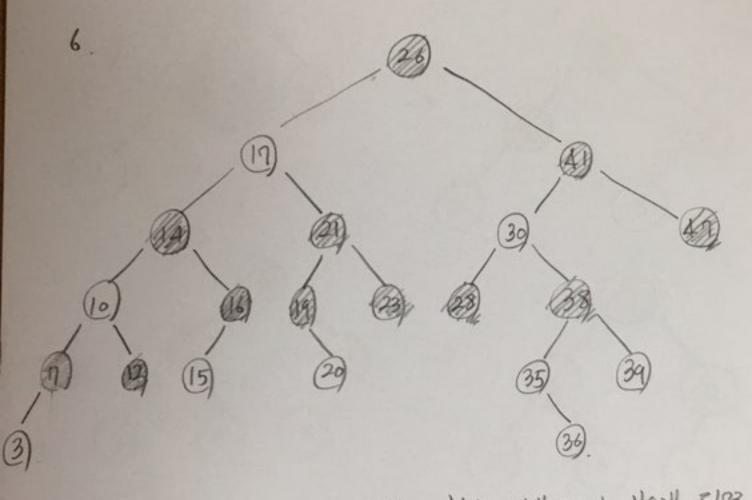
4. keys
11, 2, 17, 5, 3, 10, 6, 7, 12, 20





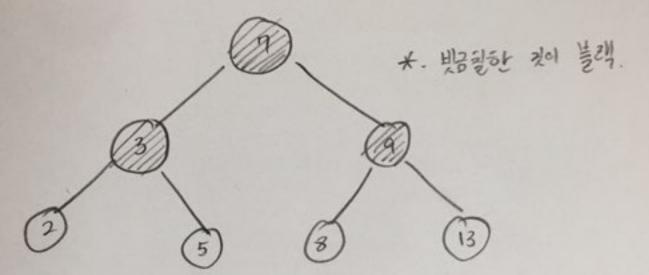
5 TREE - MAXIMUM(x)

- 1. while x. right + NIL
- 2. $\chi = \chi \cdot ight$
- 3. return 2.



- ①. 만약 삽인된 노드가 걱색이면, 면원 직색 노드가 나오게 되므로 개발력 통성 4를 위반한다. 과밀로 레드블랙 토라가 아니다.
- ②. 만약 살입된 보다가 흑색이면, 38-35-36- Tinil로 같에 흑색 보다가 그개, 37-39- Tinil로 같에 흑색 보드가 1개 나온다. 이는 레드블랙 특성 5월 위반한다. 그러므로 레드블랙 트리가 나니다.

		Color changes,	left rotations,	Right votations.	sum three operations.
insert	η	0	0	0	0
	5	0	0	0	0
	9	0	0	0	0
	2	A	0	0	4
	8	0	0	0	0
	3	2	1	1	4
	13	0	0	0	0



		Color change,	left rotations	Right rotations	sum three oper ations
Delete	2	0	0	0	Ō
	η	1	0	0	1
	9	1	0	0	1
	5	1	1	0	2
	3	1	0	0	1
	13	0	O	0	0
	8	0	0	0	0

