## 1. Q. 일단 note의 千升 5 개이의 최소 3, 최대 5의 height를 가낸다.

어디 heightil 5가될수는 없다. (B

B Zol treatslolopoperty 13 Note of 161

Left subtree 32-22 C.D.EZ-HU Black rode it 31015 HU 32-93 Bolled black height it che'll CHZOKL.

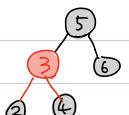
다음 height 가 4 또한 될 수 없음은 보이고! 만지, noot node 입장에서, height가 4인 mode가 관계하는 쪽은 CHIL ldack height 국계산하면 NIL mode로 화하여 최순 2 old. (not-Red-Black-Red-NIL)

CHAM root rate one-chill 24 st. . 227 two-child odopostel.

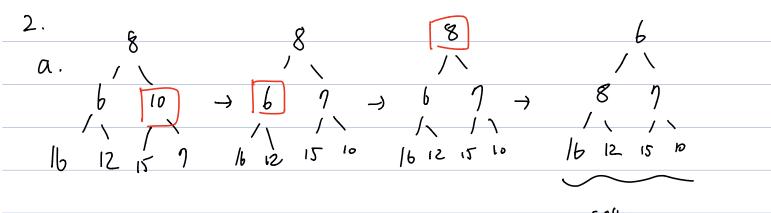
्रथ**म** इस्म Bolly black height > + 42+24, (CH PZ HOLS ALLE Black Made) SED Sta.

i. always has a height of 3.

## 6. All 7 3211 Her.



: 5.3.6.2.4.1 = insertible Charter that def election.



ansher.

[6,8,7, 16, 12, 15, 10]

3, time complexity when success for search

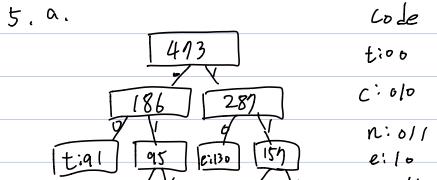
$$= E \left[ \frac{1}{n} \sum_{i=1}^{n} \left( 1 + \sum_{j=1}^{n-1} \frac{1}{n} \left( 1 + \sum_{j=1}^{n-1} \frac{1}{n} + \sum_{i=1}^{n} \left( 1 + \sum_{j=1}^{n-1} \frac{1}{n} + \sum_{i=1}^{n-1} \left( 1 + \sum_{j=1}^{n-1} \frac{1}{n} + \sum_{j=1}^{n-1} + \sum_{j$$

:. 이억자 구현M도 성능은 똑같다!

4,

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2	4	0	Ŋ	N	4	4	4	4
4	3	0	2	2	4	6	6	<b>⊗</b> (
ţ	1	0	2	2	4	Ь	7	ტ0^
5	2	0	2	2	4	6	7	8

: optinal itemset = {3.4.5}



(C:28 (nib) 0:15 (a:82 a:11)

b. 00,10,011,00,111,00

ansuer: tencat