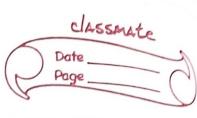


*	Binomial Heap
	(unordered set of binomial trees)
,	1 max Heap
	@ get max
	3 meld Bk -level 0
	(9 insert - level 1
	(5) extract max BK-1
4	6 increase key
,	7 delete key
	(8) build key
	B ₂
	Bo Bi O O O O O O O O O O O O O O O O O O
	Contection of archero Property Oct 1
	B ₃
	03
	000
	O The second sec
→	Bk man and was and was and
	no. of nodes n = 2k till toward and alone
	Height = Kariotto (iz dzildowo)
	:. h= 0 (log n) / TR
	Nodes at depth i: (k)
40,0	# (depth i) = # (depth in TL) + # (depth i in TR)
	: (K-1)+(K-1)=(K) (# Pascal)



	Deg (noot) = K (# KC1=K or use induction)
	Case Dimonic 40 498 De-olmonic
-	max deg is for root in Bk
	XD187 (90 (6)
	BK NA DIAMO
	80 (# Telescope
	BK = BK-1 + BK-1
	BK-1 BK-2 BK-1 + BK-2
	(3) dolete kall
-	B1 = B0 + B0) (2) blush (2)
4	Bar Comment of the Co
*	Binomias Heap
	(Callection of ordered Binomics trees)
\rightarrow	Ordered wit degree
	til 1000 CX CX CX
	(T) (M) (M)
	* each is a max neap
→	walk along the root list do so school to on
*	Find max in O Croot list. si) (Naire)
. 4	(apol) 0 = d :
	Bo B. B2 -7 (x) digas to constitute
	If Bi present ith hit set to 1 elle 0 (bi = 0 or 1)
	: n= 5 bi(21) = (1) (1) = (1)
	(=0

Mognitt bits required to store	n keys
maxdeg Llogal # Blyons exist	

:. Length of root list Llagh 1+1 = O(logh)

* (nermax: Octogn) (# length of root list)

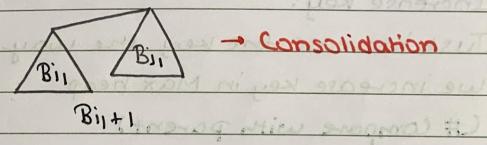
Lavoraso ei

* Meid: Octogn)

Bi, Biz. Biz Biz.

4 <12 <... 1 < 12 < 100 : 2000 + 2000

If 1 = 11



- Consolidation

At every iteration either of the pointer moves by 1 O(logn,) + O(logn,) < O(logn) (# AM-GM)

* Insert Ochogn)

assume other node to be a binomial heap