Subject:	No.: 9- (
* priority queue W/ O(1) insert and O(1) hard for each individual operation. but possible "amortized"	,
* Binomial cheap insert usually expensive insert some time	
* observation: sinsert to (merge W/) small tree : check large : expense	
idea: instead of using one tree (heap or use many trees, from son try merge W/ small frees * binomial tree Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo = Bo =	nall to large
$B_2 = B_0$ $B_1 = B_0$	
$B_3 = B_1$ $B_2 = B_2$	
By contains 2 hodes	

Double A

Subject: 20 (No.: 9-2 Date:
* binomial forest	
fat most one Bx per each ky	
=> can represent any n elements in	nide
n=10: {B3, B, 9	- 1 - va contra
N=11: { B3, B1, B04	ary number representa
* binomial heap	-
binomial forest w/ min-trees	
insert O to SBoy > [merge Bo Bo =)	Bi
insert O to {B,4 > {B, B,4	
insert O to {Bo, Bi} = merge Bo, Bo =	merge B, B, => Bz
insert () to {Bz} > {Bo, Bz}	
,	
*	
every one insertions: add Bo	
two : merge Bo, Bo	
four : marge B. , B.	5
eight : merge Bz, Bz	
after n insertions	
$\frac{N}{2^k} + \frac{N}{2^{k-1}} + \dots + N = O(n) \text{opera}$	tions - amortized
	0(1)
(like incrementing binary numbers)	
* get Min: search for {Bo, B,, Bk} for m	
at most O(logn) trees for n	nodes
⇒ O(log n)	j.
can be improved by keeping a pmin po	inter to min-min-tree
* merge: O(log n), like adding to binary number	