	3) MULTISET: iden but repetitions are allowed
Exercise session 1: Monday Septenber 30th_	prove that: $B(z) = exp\left(\sum_{k \neq 1} \frac{A(z^k)}{k}\right)$
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A] Complements on the symbolic dictionary:	B] Non place binary trees ; or other trees (enumerated by the # of cleaves)
	let F= d non plane binary trees; enumerated by leaves by :
i) Printing: let 3 be a combinatorial class; dende @B	(1,2) = (1,2) + (1,2
the combinational class obtained from B by marking one of its elements	and the state of t
eg: if B=} } @B=a{ } ; what is@B(2)?	1) write an equation for f(x) and a second s
	2) Set S(2):= 2+ 1 f(2); give some bounds for the RoC of 5?
Substitution: B, $C = 2$ comb classer. Bo C_2 obtained by substituting each	3) give an expression for f; in terms of S. and deduce that I grad p s.t.
atom of be 3 by an element of 6	$[\mathcal{Z}] \neq (\mathcal{Z}) \sim \gamma \cdot e^{-n} \sim^{-3/2}$
eg: B = { binary trees by leaved} -	4) give an algo to compute numerically some approximations of J and C.
what is Off (Bog) !	
deduce the OGF (whavy time my trees) where all nodes contribute to the size.	C lettmost leas in a binary tree:
	V nz1, kzo; let buse := # binary here with a leave st its
2] <u>POWERSET</u>	$\mathbb{B}(u, x) := \sum_{n \geq 1} \sum_{k \geq 0} b_{n,k} u x^{k}$
. A powerset is an unordered collection without repetition	2) Write an equation for B(u,x).
size: I sizes of the objects	2) Prove that for k fixed, lin P(-huight = k) = k
if $\mathcal{B} = \operatorname{PSet}(\mathcal{A})$ with $A(\mathfrak{s}) = \Sigma' \mathfrak{a}_k \mathfrak{s}^*$; prove that $B(\mathfrak{s}) = \exp\left(\sum_{k>1} \frac{(-1)^k}{k} A(\mathfrak{s})\right)$.	
	3) Deduce the limit of the avorage height of the lot most less in
	a uniform binary the of size m as n grows to 00.