		and the property	
	Lecture 17: Skiplists Conclusion.		
	Question: What is the expected , n nodes?	mass height of skiplist with	
	n nodes?		
	"Back of Envelope"		
erene, a se par entre est anno	on nodes, on average	how many have	
	·height >0?	when is this <19	
	ETHI- FIRTE	(x) + + + + .	
	· height > 1	$\Rightarrow n < 2^k$ $\Rightarrow logn < k$	
	. 1/2	⇒ logn < k	
	· height ≥ 2 · n/4	Hint that max height may be O(logn)	
and the spirit and a property of the spirit	· height > k?	may be O(logn)	
appealing states of the control of	. n/2 k		
Arabethan and a company of	The state of the s	B	
	* Formalising things	1	
	Land to the first the second second		
	-> H = rand var = max height in A	list of length n.	
	-> For each k=0,1,2,	art 1821	
	- length of list at height k,		
and the second state of the second	L _K = length of list at height k, # nodes with height > k.		
	Observe: $E(L_k) = \frac{n}{2^k}$		
general de restation	21/		
	H A 10 (1 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
and the second s	therefore, if $k = logn + j$. $(j \ge 0)$		
and the property of the state o	E(1,) = N	- n = [
na na garaga at ang tangga at a garaga at a	$E(L_{logn+j}) = \frac{n}{2^{logn+j}} = \frac{n}{2^{logn} \cdot 2^{j}} = \frac{1}{2^{j}}$		
and the second s	The state of the s		
	To analyse HH) we seems to the HT		
enced to the property of the second second	To analyse (H), we can write (SIF) Has sum of simpler variables.		
The second secon			



