Recursion	
	TOP DEFINITION
	recursion
	See recursion.
	by Anonymous December 05, 2002
	100 and in the control of the control
	sive functions are functions defined in terms of themselves
e.g.	the factorial function is recusive:
	$\frac{1}{n!} = \frac{1}{n!} $
	$n' = f(n) = \begin{cases} 1 & \text{if } n = 0 \\ nf(n-1) & \text{ottenise} \end{cases}$
(1	$0! = 1, 1! = 1 \times 0! = 1, 2! = 2 \times 1! = 2, 3! = 3 \times 2! = 6,)$
Wh	at is the most important part of any recursive functi
1h	e base case. This is the part of the function
	at aves not removely call itself.
	in think of it as the end of the recusion.
Wh	at happens if we forget it?
W	lithout a base case, the function just keeps ecusively calling itself, so your function won't sto
14	ecusively calling itself so your function won't sto

This is often called infinite rewsion.