What do you mean by recursion? Discuss advantages and disadvantages of recursion.

	Q-What do you mean by recursion? Discuss advantages and disadvantages of recursion.
	Recursion is a method of solving a computational
	problem where the solution depends on solutions to
	smaller instances of the same problem. Such problems
	can generally be solved by iteration, but this needs to
	identify and index the smaller instances at
	programming time.
	Advantages of Recursion
	On the other hand, recursion has the following
	advantages:
	For a recursive function, you only need to define the
	base case and recursive case, so the code is simpler and
	shorter than an iterative code.
	Some problems are inherently recursive, such as Graph
	and Tree Traversal.
	Disaduantages of Recursion#
	Recursion, broadly speaking, has the following
	disaduantages:
	A recursive program has greater space requirements
1000	than an iterative program as each function call will
	remain in the stack until the base case is reached.
	alt also has greater time requirements because each
	time the function is called, the stack grows and the
	final answer is returned when the stack is popped
	completely.
No. 2 and the local distance	