## Foundations of recursion

Program -> Call Stack

Function -> Activation Record

* *Parameters*
* *Local Data*
* Metadata
  + Code pointers
  + Return addresses

***DRAW RECURSION TREES***

1. Mental model of the code
2. S(n) is proportional to the height of the tree

= height \* space per node

1. T(n) is proportional to the no of nodes

= no of nodes \* time per node