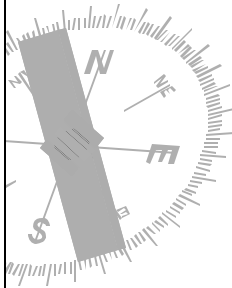


RECURSION



RECURSION

- ? A function may call itself either directly or indirectly
- ? Each invocation gets a fresh set of all the automatic variables
- ? No storage savings nor faster execution



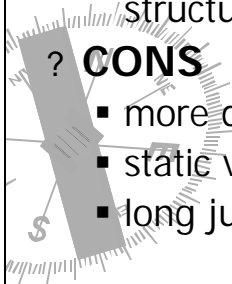
RECURSION

? **PROS**

- easier to write and understand
- more compact code
- convenient for recursively defined data structures (binary trees)

? **CONS**

- more difficult to write and understand
- static variables
- long jumps



RECURSION

? Example

- <http://faculty.washington.edu/sproedp/advc/csamples/less10.c.html>

