

Pointers in C
 C, in contrast to Python and Scala, makes an explicit distinction between things and pointers-to-things. As I understand things, in Python and Scala variables are pointers/references to objects, and you deal with them fairly abstractly. In C, you can have variables that are "things" (integers, floating-point numbers, etc.) and variables that are "pointers to things" (in some ways more like variables in Python and Scala, but very low-level and with fewer safety checks).
 That is, in C, pointers are basically just memory addresses, though declared to point to variables (or data) of a particular type. Example:

 int * pointer_to_int;
 double * pointer_to_double;











