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Sidebar: Tracing Code A valuable skill to have is working through what the computer will do when it executes your program — "tracing code". Also known as "desk checking", from the days before desktop computers, or "playing computer". Idea is to write down names of variables, their values; when one changes, cross out old value and put in new one. (Short examples?) Also can be useful to enlist the computer's help with this, via "debug print" statements. Just remember to remove them (or at least comment them out) when you get things working!





Sidebar: "Undefined Behavior" in C You may have noticed that if you try to input a really large value with scanf you don't get either the right value or any kind of error. You might also notice that strange things happen when you try to compute a fairly large number using an int. (This is easy to do with our factorial program.) Both examples of what C calls "undefined behavior". Means that the language doesn't say what's supposed to happen. Might be different depending on compiler and options! A really careful programmer checks to make sure this can't happen. (Revise factorial program.)

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