





Building Large Programs — Separate Compilation
For large programs it's often better to split up code into more than one source file — for readability if nothing else.
How then to make the executable? A good way is to compile each .c file separately (with gcc -c) and then use gcc to "link" the resulting .o ("object code") files to produce the executable. (Note too that while gcc names the executable a.out by default, it will call it something else if you say to.)
Sounds complicated? well, not as simple as compiling a single .c file, but ...



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## Makefiles • First step in using make is to set up "makefile" with "rules" describing how files that make up your program (source, object, executable, etc.) depend on each other and how to update the ones that are generated from others. Normally call this file Makefile or makefile. (Example: Homework 8.) • When you type make, make figures out (based on files' timestamps) which files need to be recreated and how to recreate them.











