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1) -DCORRECT tells gcc to stop the compilation process after the file has gone through the preprocessor. At this point, all of the files in the "#include"s are pasted into the source file. The original error was that a struct was trying to be defined in preprocessor.c, which was already defined in either stdio.h or math.h. -DCORRECT recognizes that its just a redefinition of the previous one and ignores it.

2) The -lm command searches for the appropriate library a function or variable may be declared in, and links it with your source file to get rid of undefined reference errors.

3) In linker3.o, there seems to be a text section, but in a.out, there is a section called "Disassembly of section .interp:" in linker3.o, the code for the actual function is there, but in a.out, there is code that will call the function that was supposed to be called.

4) adding ./lib to LD_LIBRARY_PATH fixes this error by telling the linker to look for the dynamic library libmul.so.