1

How and why does '-DCORRECT' remove errors and warnings?

Solution

DCORRECT works by defining "CORRECT". When compiling pre-proc1.c, we will get compilation errors if CORRECT is not defined, as math.h and stdio.h will not be imported in pre-proc1.c.

2

What does '-lm' do to resolve the error?

Solution

Providing the -lm flag to gcc links the math library into the program. This is due to historical reasons, where the math library was defined separately from the stdio and other POSIX functions.

3

What has the linker done in 'a.out' compared to 'linker3.o'?

Solution

The linker has fully linked in the printf, foo, and my_mul in the a.out file. This makes sense, as this is the executable form. The earlier version, the object file, does not yet have these external functions linked in. The strings "printf", "foo" and "my_mul" are not present in the .o file.