Exercise 4: Generating an executable image for hello.c in four steps.

Use the following four steps to generate the executable image of "hello.c", and record the process using the system command script. Observe the file size generated at each step, and finally, compare it with the file size produced by gcc hello.c. Write your observations as a reflection.

The file "hello.c" can be downloaded here: <http://w1.csie.ntnu.edu.tw/~ghhwang/course_slices/system_software/Linker_Library_in_Unix.rar>

Note: The results generated by script and your reflection should be saved in separate files. Compress these files and submit them together.

\*cpp ./hello.c > main.c

\*/usr/lib/i386-linux-gnu/gcc/i686-linux-gnu/4.5/cc1 main.c

\*as -o main.o main.s

\*ld -o main.out /usr/lib/crt1.o /usr/lib/crti.o /usr/lib/i386-linux-gnu/gcc/i686-linux-gnu/4.5/crtbegin.o ./main.o -lc -lgcc -lgcc\_s /usr/lib/i386-linux-gnu/gcc/i686-linux-gnu/4.5/crtend.o /usr/lib/crtn.o -L /usr/lib/i386-linux-gnu/gcc/i686-linux-gnu/4.5 -L /usr/i686-pc-linux-gnu/lib -L /usr/lib/ -dynamic-linker /lib/ld-linux.so.2