CS330 - Computer Organization & Assembly Language
Assignment # 6

Individual Work Only

Problem:
1. Write a program in C that:
   (a) Takes user input, an integer, n
   (b) Includes a function that calculates and prints all the prime numbers from 2 to n:
      $$\text{void calcPrimes(int n)}$$
2. Then compile that program into Assembly, and **comment every line** to describe what it does
   - Reminder, to compile a C file to Assembly: gcc -Wall -g -S asgn6.c -o asgn6.s
   - Also, for those lines that are just Assembler directives (i.e. those that begin with .cfi_), you can just make the comment "this line is an Assembler directive".
   - If you're not sure what a line means, just take your best guess.
   - Single line comments in Assembly begin with '#'
   - Multiple line comments in Assembly are the same as in C.

TURN IN:
- Asgn6.c containing the function, compilable and documented
- Asgn6.s: the same file compiled to Assembly, with every line commented
- Makefile (that compiles the Assembly file to an executable, can use the template from Lab09)
- Independent completion form
- All in a .zip file

RUBRIC:
- 100%: Document all code
- Code that does not compile will result in an automatic zero.