

5. What do you use header files for?

4. What is the C preprocessor, and what does it do?

The header file is where you declare all your functions. It makes it easier to use a single function in different files without having to declare them again and to declare multiple functions in a single file without looking like a long list. It basically makes it so functions get declared once in one file.

C preprocessor is a separate program that does text manipulations based on directives that begin with #. For example, #include tells it to insert the contents of the named file here.

8. Suppose you have the following:

#define MAX_VALUE 32767

Is MAX VALUE a variable? If not, what is it

It is a preprocessor macro. Anywhere MAX_VALUE appears in code will get replaced with 32767 by the preprocessor.

Programming assignment 3.4

If you were using cotton balls, a modern high speed artillery, or were on a different planet, you basically just need to do some variable changes. Using cotton balls changes the mass and lowers the distance and time to reach a height of 0 because drag is increased. Using high speed can change the velocity which increases the distance and lowers the time. Changing what planet you're on just changes gravitational pull. The less pull the farther it goes and vice versa.