

1. Please list one or two examples of problems you have worked on where you would have liked to have a computer program to help solve the problem. For each problem, describe the input data, the problem, and how a computer program might have helped solve the problem.

2. Name two attributes associated with UNIX files:

3. True or False:
 - A directory may contain a sub-directory, but the sub-directory may contain only files – not sub-directories.
 - You may create whatever sub-directories you want to in your home directory.
 - You can list only those files in your home directory.
 - The current directory may be a sub-directory of your home directory.
 - The current directory may be a sub-directory of the `/usr/include` directory.

4. When writing C code, coders often put prototypes of functions at the top of the file, even though this prototype information is repeated when the function is defined lower in the file. Explain in one or two sentences why a programmer would repeat the function prototype information.

5. It is possible to generate an executable file from a C program even though the compiler has issued warning messages. Is this a good feature of the C compiler, or a bad feature? Why?