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7. This problem asks you to design a Makefile and version-control scheme for automatically generating documentation for Java code.

## Scenario:

- Assume a.java defines one class A, and b.java defines one class B.
- The javadoc program takes a Java file (e.g., a.java) that defines a class and makes an HTML file that describes the class (e.g., a.html).
- You need to add a license agreement to the top of every HTML file that javadoc produces. The contents of the license are in a file license. You have written a shell-script add-license that takes an HTML file and changes it so it includes the contents of license.
- (a) **8pts** Write a Makefile with targets for making a.html and b.html. The generated files should include the license. They should be remade whenever and only whenever a file that could affect their contents has changed.
- (b) **4pts** Which of the files mentioned in this problem would you put in a version-control system? Briefly justify your inclusion or exclusion of each file.

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- 3. (15 points) Write a Makefile for this scenario:
  - An application myprog is written in C, with all the code in myprog.c.
  - You wrote two test-inputs, in files input1 and input2.
  - You want to run myprog with profiling on each test-input and then use gprof, saving the result to file prof1 (for input input1) or prof2 (for input prof2).
  - You have a bash script compare that takes as arguments two files created by gprof and produces an interesting summary. You want a phony run target that runs compare on prof1 and prof2.

Your Makefile should re-compile or re-run programs only as necessary (except the run target should always execute compare), but it should never use out-dated programs.

Hints: You should have 4 targets. Some will need multiple commands. Some will need multiple sources.