32. Write a program that demonstrates the use of format strings for output functions. It should be a suitable example for an introductory programming course.

33. Write a program that has a format string flaw. Exploit the flaw to return the value of an unrelated variable.

34. Using the previous program, exploit the flaw and modify the value of the unrelated variable. Show how to control the result.

35. What is the whitelist approach to security? What is the blacklist approach to security. Consider the example in the text given in Figure 6-19. Is this a whitelist or a blacklist approach to security?

36. What compiler flags can you set in gcc to ensure that the format string flaw you included in the program for problem 33 are caught? Demonstrate this.