## Homework 21, due October 23

- (1) Test 118901521 for primality using the Fermat test for several values of a. Is 118901521 prime?
- (2) Test 104173 for primality using the Solovay-Strassen test. Use enough values of a to be 99 percent sure that it is prime. (Recall from class that if a number is composite, the test will tell you so for at least half of the possible a.)
- (3) (Page 200, problem 13) Test 38200901201 for primality using the Miller-Rabin test with a = 2. Then test using a = 3. Explain your results.