1. Algorithm for prime number.

Prime number is a number that is divisible only by itself and by one. One way to do it is a follows:

1) Given an integer x>2, for i=2 to x-1, divide x/i
2) Calculate the remainder. If the remainder is zero, then stop, the given number is not prime. If the remainder is not zero continue to next step
3) Repeat steps 1 and 2