## Course: CS 1050 C (Fall'03) - Homework 1

Instructor : Prasad Tetali, office: Skiles 126, email: tetali@math.gatech.edu Office Hours: Wed. Fri. 4:30-5:30pm, Thurs. 2:00-3:00pm

## Due: next Wednesday

Section 3.1: 6, 7, 16, 45 (Hint for 45: find a counterexample)
Section 3.3: 15, 24, 25, 28, 29

Section 3.4: 14, 18

## Optional Problems.

Section 3.4: 20, 22
-. Show that there are infinitely many primes in the sequence $3 n+2, n=1,2,3, \ldots$

## Unresolved problems.

1. It is conjectured but not proved that there are infinitely many twin primes - some examples being $(3,5),(5,7),(11,13),(17,19), \ldots$
2. Goldbach's conjecture. More than 250 years old is the unresolved conjecture that every even positive integer ( $>2$ ) can be written as the sum of two primes.

## TAs emails:

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