

COMPUTER SCIENCE 20, SPRING 2012  
DISCRETE MATHEMATICS FOR COMPUTER SCIENCE

Class #22 (Counting)

**Homework, due in hard copy Monday 4/2/2012 at 10:10am**

**Please write your TF's name on your homework, and list the names of any students with whom you collaborated.**

1. How many odd, four-digit numbers are there with no repeated digits? Note that, for example, 0123 is not considered a four-digit number, but rather a three-digit number.
2. How many even, four-digit numbers are there with no repeated digits?