

Homework 6, Morally Due Tue Mar 12, 2013

COURSE WEBSITE: <http://www.cs.umd.edu/~gasarch/858/S13.html>

(The symbol before gasarch is a tilde.)

1. (0 points) What is your name? Write it clearly. Staple your HW. When is the midterm (give Date and Time)? If you cannot make it in that day/time see me ASAP. Join the Piazza group for the course. The codename is cmsc858. READ the notes and slides on the class webpage on infcanramsey.
2. (100 points) Let  $COL : \binom{X}{a} \rightarrow \omega$ . such that

$$(\forall c)(\forall x_1, \dots, x_{a-1})[\deg_c(x_1, \dots, x_{a-1}) \leq 1].$$

Show that there is an infinite rainbow set using the Ulrich method (this is the one that uses the hypergraph Ramsey Theorem).