

Homework 8, Morally Due Tue Apr 9, 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 FINAL (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.
2. (50 points) Finish the proof of the a -ary Can Ramsey Theory that I did on April 2. (Look at slides. On slide 61 (or so) I say DO THE REST YOURSELF.)
3. (50 points) Show that

$$GER_a(k, \alpha) \leq \Gamma_{O(a)}(k^{O(1)}).$$

(Try to get the constants as best you can. The $O(a)$ may be a function of α (I haven't checked it yet). The $O(1)$ may be a function of a and α (I haven't checked it yet).