

Homework 11, Morally Due Tue Apr 30, 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 cm5c858.
2. (50 points) Assume that $PVDW(\omega, \omega)$ is true. Show that, for all c , there exists W such that for all $COL : [W] \rightarrow [c]$ there exists a, d such that $COL(a) = COL(a + d^3)$.
3. (50 points) Assume that $PVDW(\omega, \dots, \omega)$ is true (there are $k - 1$ ω 's). Show that, for all c , there exists W such that for all $COL : [W] \rightarrow [c]$ there exists a, d such that $COL(a) = COL(a + d^k)$.