COMP599 Assignment 2

Due 9:00 AM February 26th 2014

Show that for every ε there is a $\Delta(\varepsilon)$ such that if G is a regular graph of degree $\Delta > \Delta(\varepsilon)$ then there is a proper colouring of its edges using at most $(1+\varepsilon)\Delta$ colours so that for every vertex v and colour j there are at least $\Delta/10$ neighbours of v incident to an edge of colour j.

Work together, indicate who wrote what part of the answer, and submit to breed@cs.mcgill.ca as a .pdf file.