CSE6115

Homework Assignment #2 Due: September 28, 2012

1. Let $L = \{0^x 1^y 2^x : x, y \in \mathbb{N}\}$. Give a function L(n) and give a careful proof that every (single-tape) Turing machine that decides L has worst-case running time $\Omega(L(n))$. Your function L(n) should be as large as possible.