

CSCI 2400 – Models of Computation

## Homework 12

Due: Thursday April 22

**Problem 1.** Is the following problem decidable? Given a Turing machine  $M$ , determine whether  $M$  writes in the area of the input string.

**Problem 2.** Is the following problem decidable? Given a Turing machine  $M$ , determine whether  $bbbb \in L(M)$ .