

CS 380 Theory of Computation
Spring 2008
Homework 11
Due April 22

1. Is it decidable whether a Turing Machine ever produces an output?
2. Is it decidable whether a Turing Machine ever revisits its starting state?
3. Is it decidable whether a Turing Machine ever visits its 10th state?
4. Is it decidable whether a language accepted by a Turing Machine is infinite?
5. Is it decidable whether a language accepted by a Turing Machine is recursively enumerable?