

Homework 15

December 13, 2019

Deadline

Due: December 20, 2019, 23:59. Good luck!

Problem 1

Show that the set of Turing-machine codes for TM's that accept all inputs that are palindromes (possibly along with some other inputs) is undecidable.

Problem 2

Show that the language of codes for TM's M that, when started with blank tape, eventually write a 1 somewhere on the tape is undecidable.