HW 1 CMSC 652. Morally DUE Feb 4

1. (0 points) What is your name? Write it clearly. Staple your HW. When is the midterm? Where is the midterm? When is the Final?

2. (100 points) Let T be an increasing computable function. Show that there exists a decidable set A such that the following occurs:

   If M is a TM that, on all inputs of length n, halts in $\leq T(n)$ time, then there is an INFINITE NUMBER of x such that $A(x) \neq M(x)$.