CSC 4170 In-class Exercises

7. Turing Machine Variants

1. Construct a multitape Turing machine that uses two tapes to decide the language:

\{\#0^n = 0^m \mid n = m\}
Design an enumerator for the language $(00)^*$, i.e. $\{\varepsilon, 00, 0000, 000000, \ldots\}$. Hint: Start with the one of Slide 3.2.g and think about how to modify it.

3.2.g

**An example of an enumerator**