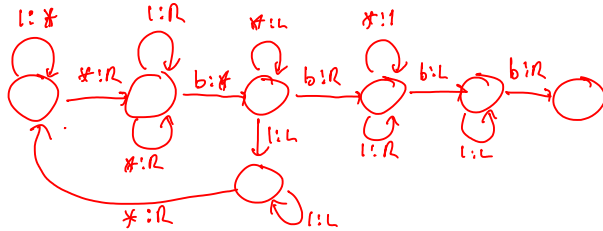For hw9

1. Starting on the leftmost of a block of n 1s, turn it into a block of $2n$ 1s. You may use an alphabet with more symbols in it than 1 and b, in fact you should; don't just give the Turing Machine I did in class! Full credit only if you use fewer than 8 states.

I think this one works. Symbols: $b, 1, *$

3. Write a Turing Machine that adds 1 to n in *decimal notation*. (Obviously the alphabet here must include 0,1,...,9 as well as any other symbols you want!)