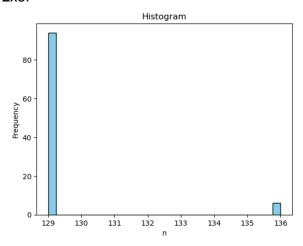
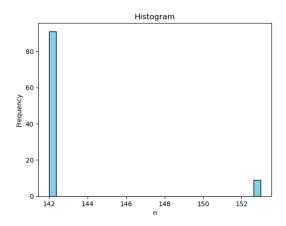
# Plots of my time complexity:

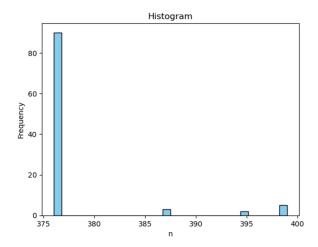
## 2x3:



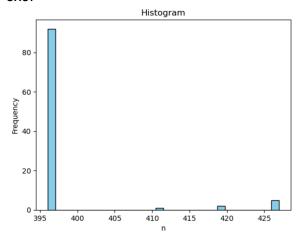
## 3x2:



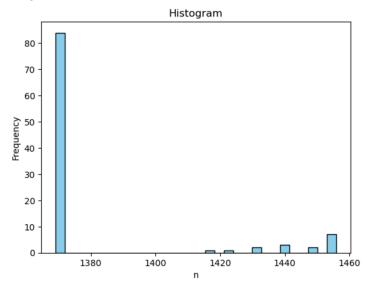
## 3x5:



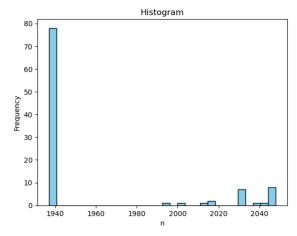
## 5x3:



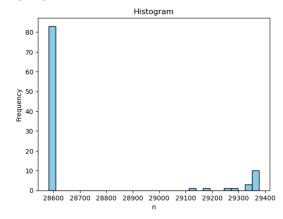
## 12x3:



#### 8x7:



#### 20x20:



Based on the above plots, my time complexity is roughly a\*b. I conclude this because when I double either a or b, the total steps roughly doubles. And when I double both, the timestep quadruples.

THe order of a & b does seem to matter slightly. THis is because the turing machine spends more time running back and forth along the second number.