

10 pts

On paper write a Turing Machine with building blocks for multiplying two unary numbers. You may work with 1 or two others for this classwork.

Problem: Multiply two unary numbers, $f(x*y)=x*y$, x and y unary numbers. Assume $x,y>0$.

start with:	1111*11
	↑
end with:	11111111
	↑

Turn it in a sheet of paper with both names on it.

Give the running time, big-Oh, assuming the $|x|=n$, $|y|=m$.