

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
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end with: 11111111
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Turn it in a sheet of paper with both names on it.

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