

HW6 Due Friday 3/9

$$L = \{ w \# w \mid w \in \{0,1\}^* \}$$


~~110~~ # ~~110~~
↙
0

$\Sigma = \{1, +\}$

|
||
|||
||||


TM

input two unary #'s

eg. ||| + |||| 

output: sum of two unary #'s

~~xxx~~ + ||||| 

~~|||~~ + ||||| 

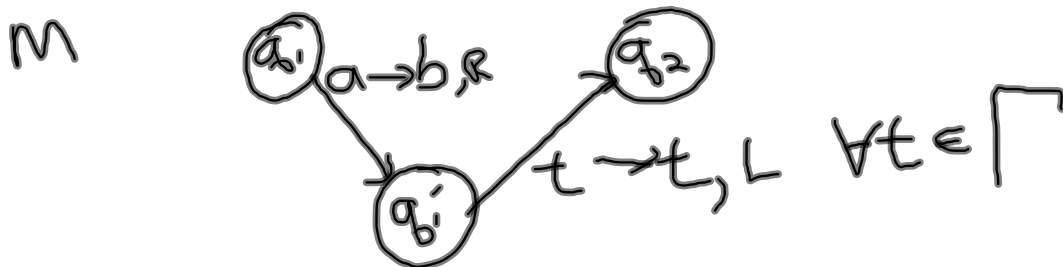
+ |||

~~x||x~~ 

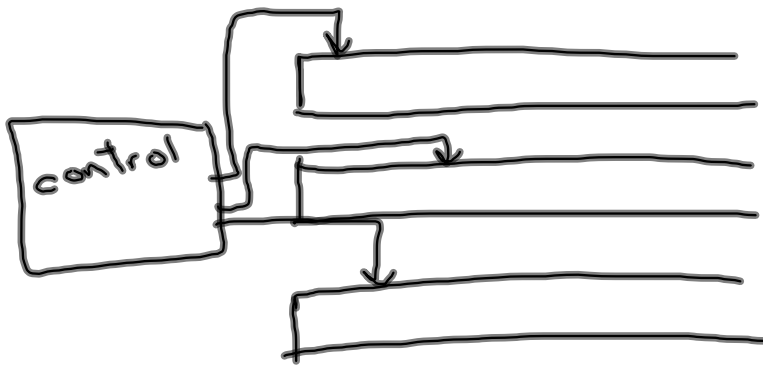
TM w/ "stay" direction

Show every TM w/ "stay"
has an equiv. "normal" TM.

Suppose S is a TM w/ "stay"
Construct a TM M w/o "stay"



Multi:-tape TM



construct a single tape TM
from multitape machine