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example of a multitape TM:

A TM that accepts all strings.

It will create a copy of its original input string placed on tape #1 ~~after~~ using tape #2 as auxiliary memory.

The copy will follow ~~around~~ a \perp left on the tape between original string and the copy for preparation purposes.

$1, \perp \rightarrow 1, 1, R, R$
 $0, \perp \rightarrow 0, 0, R, R$

$\perp, 1 \rightarrow \perp, 1, S, L$
 $\perp, 0 \rightarrow \perp, 0, S, L$

$\perp, 1 \rightarrow 1, 1, R, R$
 $\perp, 0 \rightarrow 0, 0, R, R$

