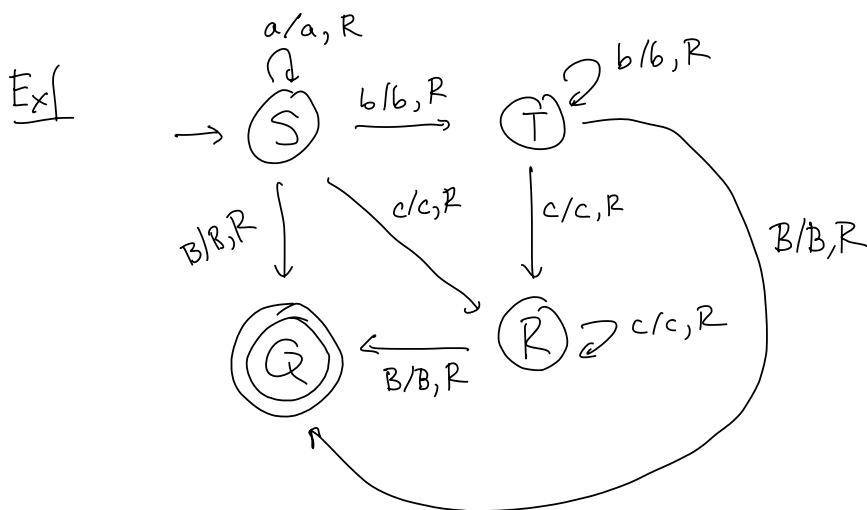
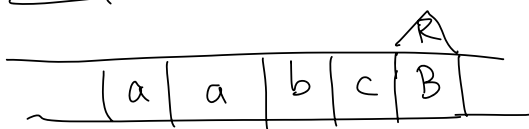
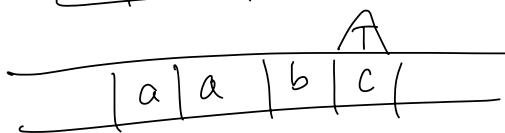
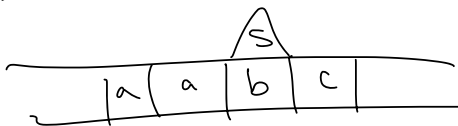
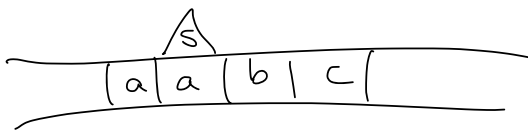
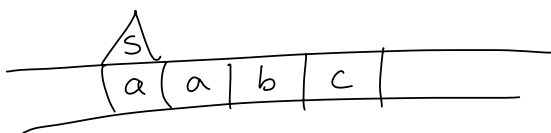




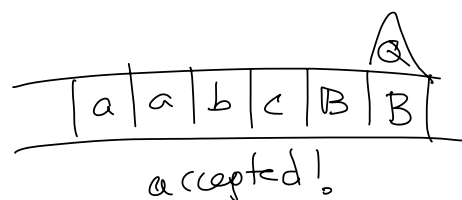
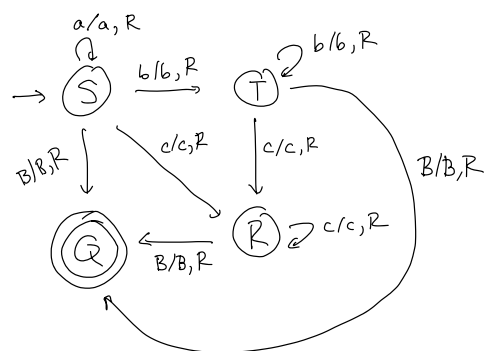
A label like $x/y, R$ means
 "read x , write y , move R "

We begin with the input string on the tape,
 if the TM ever reaches an accepting state,
 it halts & the string is accepted.

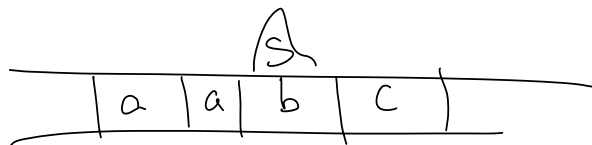
Is abc accepted?



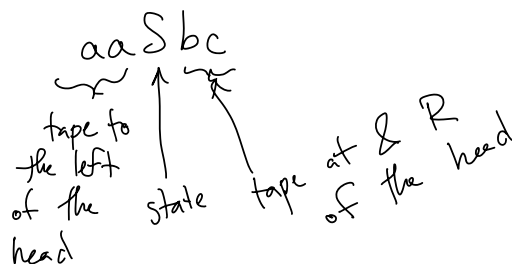
→



We write it like so:



as an ID:



our $aabc$ looks like

$$Saabc \mapsto aSabc \mapsto aaSbc \mapsto aabTc \\ \mapsto aabcR \mapsto aabcBQ$$

Try aba

$$Saba \mapsto aSba \mapsto abTa \text{ stuck!}$$

(no outgoing "read a" arrow
from state T)

so aba is rejected.

Derivatives

Grammars

Stack machines