Assignment 11
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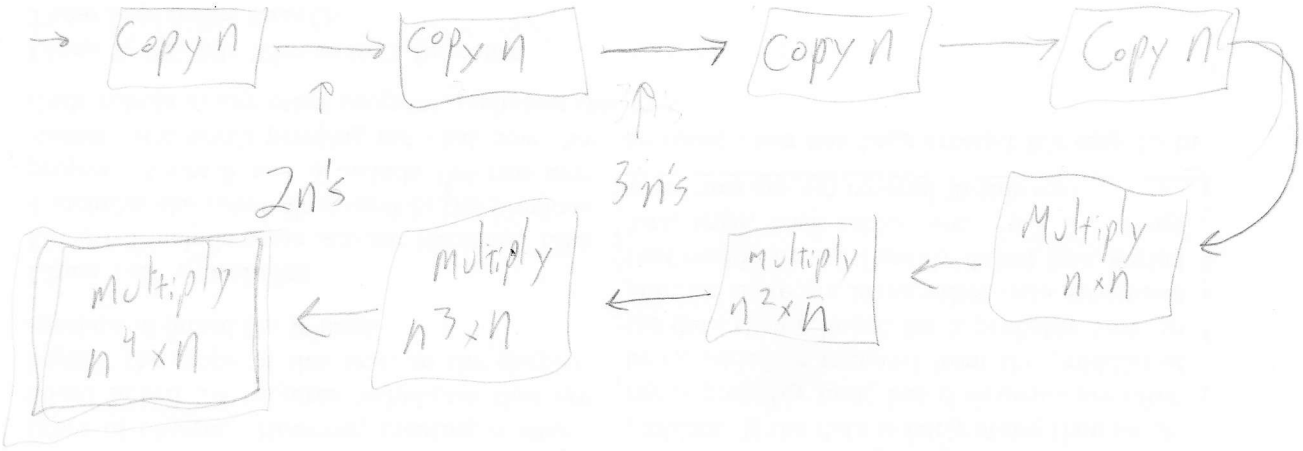
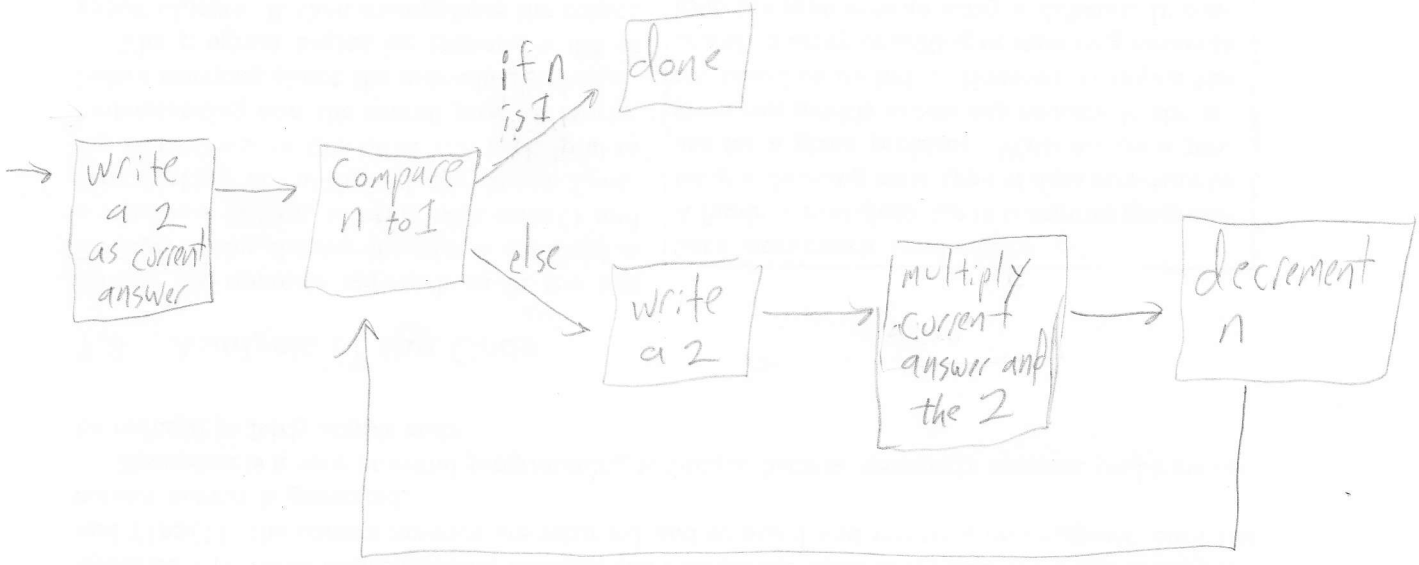
(3b) starts w/ n on the tape. Assume $n > 0$

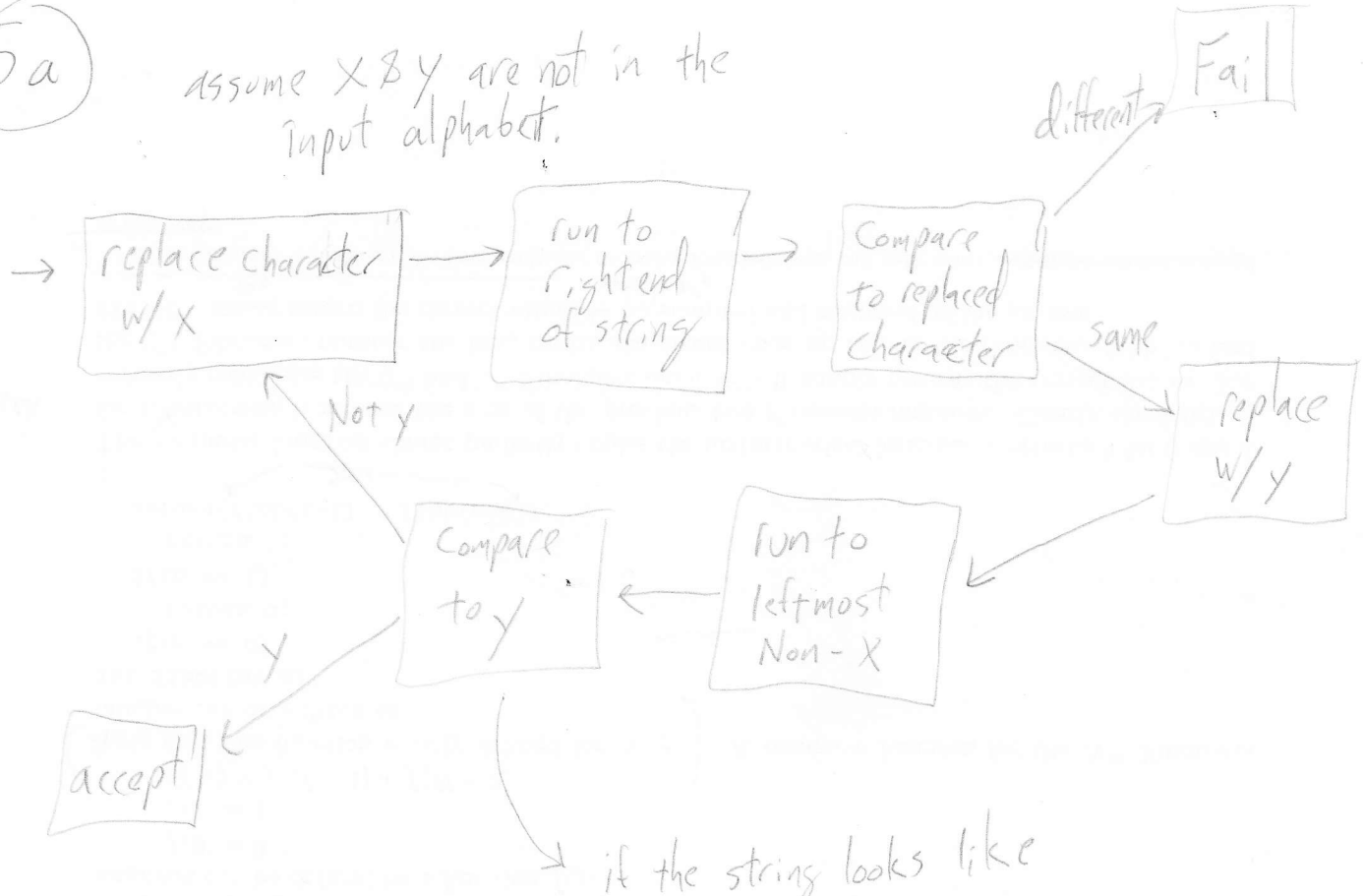


(3c) starts w/ n on the tape. Assume $n > 0$



5a

assume X & Y are not in the input alphabet.



if the string looks like

X X X X y y y y

↑

TM

Then the original string was ww^R

8 In back of text.

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(4) In back of text

(7) Introduce a symbol, say X, to represent a blank

for all transitions of the form

$\delta(q_i, \sqcup) = (q_j, a, R)$ add a new transition.

$\delta(q_i, X) = (q_j, a, R)$ the original transition must be kept for the original blanks on the tape

and

for all transitions of the form

$\delta(q_i, a) = (q_j, \sqcup, R)$ replace w/ a new transition

$\delta(q_i, a) = (q_j, X, R)$

you may also want to look at problem 6 and the answer in the back of the text.