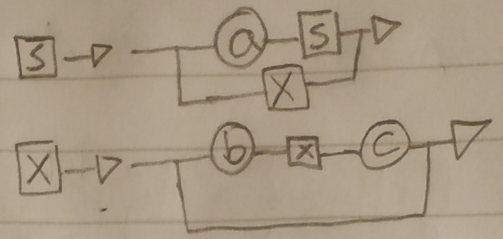


# Forritunarmál verkefni 1

Málrit:

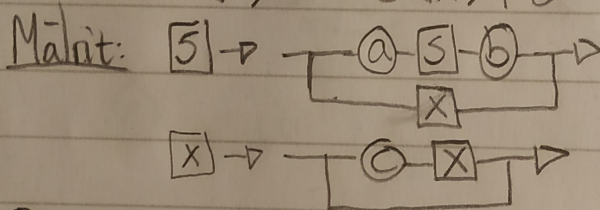
1. ⑥ Mál er mengi strengja.



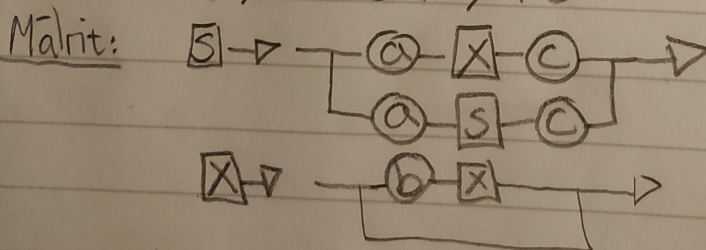
2. ② BNF:  $\langle s \rangle ::= a \langle s \rangle \mid \langle x \rangle$  EBNF:  $s = \{a\} \mid x$   
 $\langle x \rangle ::= b \langle x \rangle c \mid \epsilon$   $x = 'b', \{x\}, 'c'$

⑥ Ekki hægt en eins og sést í ② líd er hægt að setja  $\langle x \rangle$  inn á milli b og c og skjóta því þannig inn á milli en það er ekki hægt tvisvar eða oftar.

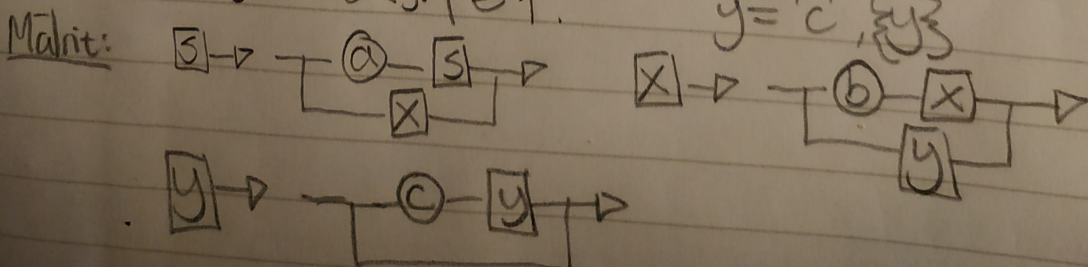
③ BNF:  $\langle s \rangle ::= a \langle s \rangle b \mid \langle x \rangle$  EBNF:  $s = 'a', \{s\}, 'b' \mid x$   
 $\langle x \rangle ::= c \langle x \rangle \mid \epsilon$   $x = 'c', \{x\}$



④ BNF:  $\langle s \rangle ::= a \langle x \rangle c \mid a \langle s \rangle c$  EBNF:  $s = 'a', \{x\}, 'c' \mid 'a', \{s\}, 'c'$   
 $\langle x \rangle ::= b \langle x \rangle \mid \epsilon$   $x = 'b', \{x\}$

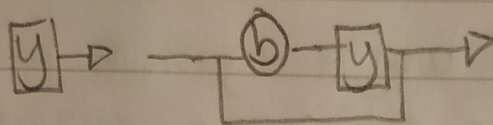
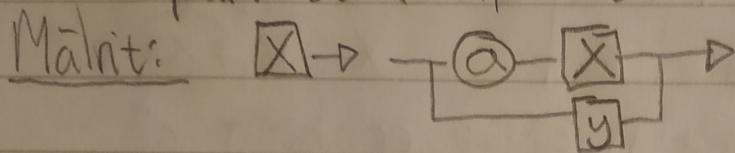


⑤ BNF:  $\langle s \rangle ::= a \langle s \rangle \mid \langle x \rangle$  EBNF:  $s = 'a', \{s\} \mid \{x\}$   
 $\langle x \rangle ::= b \langle x \rangle \mid \langle y \rangle$   $x = 'b', \{x\} \mid \{y\}$   
 $\langle y \rangle ::= c \langle y \rangle \mid \epsilon$   $y = 'c', \{y\}$





3. Mállysingin lýsir máli sem byrjar á núll eða fleiri stókum af 'a', og á eftir því koma núll eða fleiri stök af 'b'.



Endanleg stöðuvél:

