

## Aufgabe 5

a)

$$S \longrightarrow A_1$$

$$A_1 \longrightarrow aA_1 \mid \varepsilon$$

$$S \longrightarrow B_1$$

$$B_1 \longrightarrow bB_1 \mid \varepsilon$$

$$S \longrightarrow A_2B_2B_2$$

$$A_2 \longrightarrow A_2B_2B_2A_2 \mid a$$

$$B \longrightarrow bB_2 \mid b$$

$$S \longrightarrow B_3A_3$$

$$B_3 \longrightarrow B_3A_3B_3 \mid b$$

$$A_3 \longrightarrow aA_3 \mid a$$

b)

$$(\{b\}\{abb\{b\}\}|\{a\}\{ba\{a\}\})$$

c)

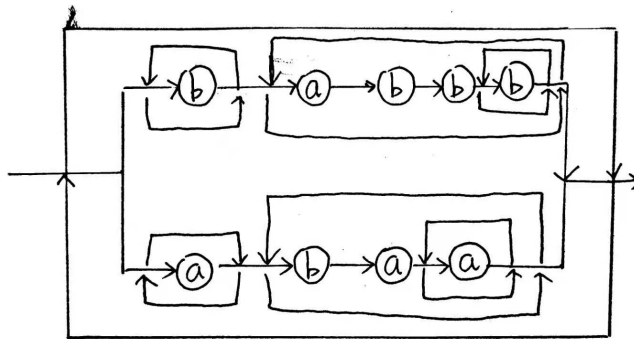


Figure 1: c