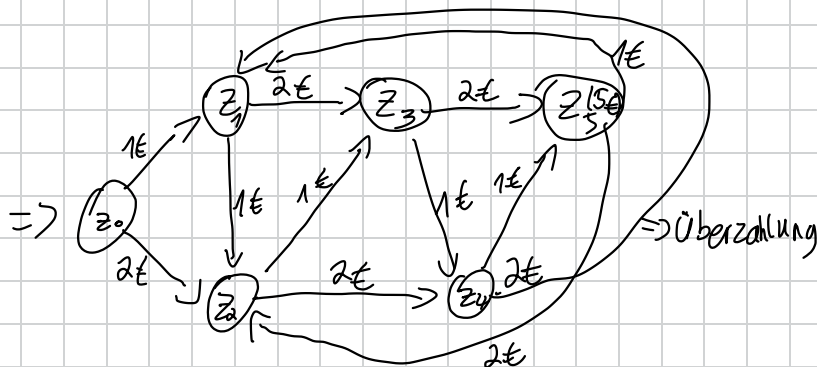


08.10.2023

Formale Sprachen - Übung 1

7600584
Tinf22B1

1.) a)



b)

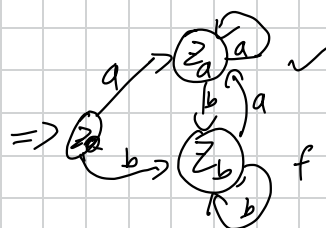
	z_0	z_1	z_2	z_3	z_4	z_5
1ϵ	z_1	z_2	z_3	z_4	z_5	z_1
2ϵ	z_2	z_3	z_4	z_5	z_1	z_2

c) $2, 1, 1, 1, 2, 1, 1$
 $z_0, z_2, z_3, z_4, z_1, z_2, z_3$
 $2, 2, 1:$
 z_0, z_2, z_4, z_5

2.) a) $\{a, b\}$ $a \dots a$

akzeptiert: $abaa, aa, a$

b)



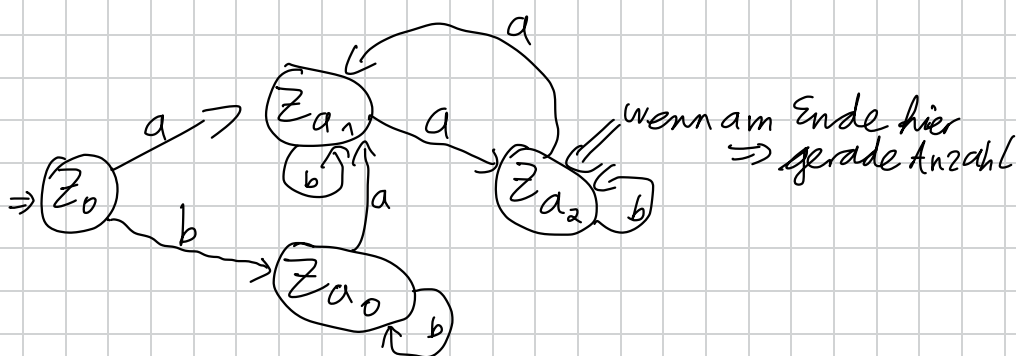
c) $aabab$

$z_0, z_a, z_a, z_a, z_b \Rightarrow \text{fail}$

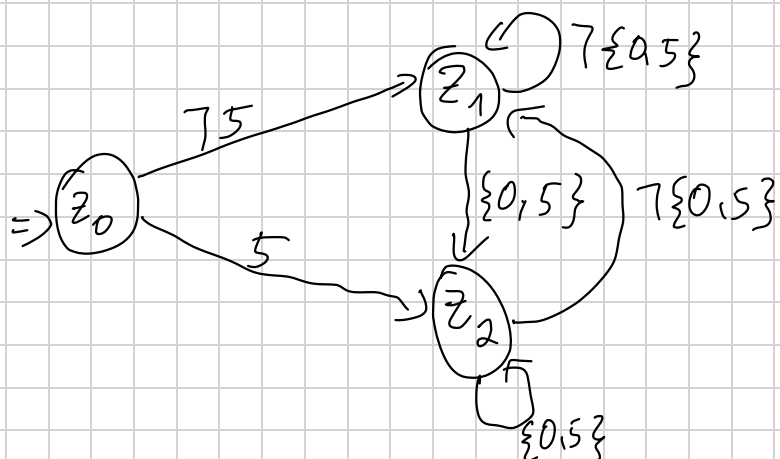
d)

	z_0	z_a	z_b
a	z_a	z_a	z_a
b	z_b	z_b	z_b

3)

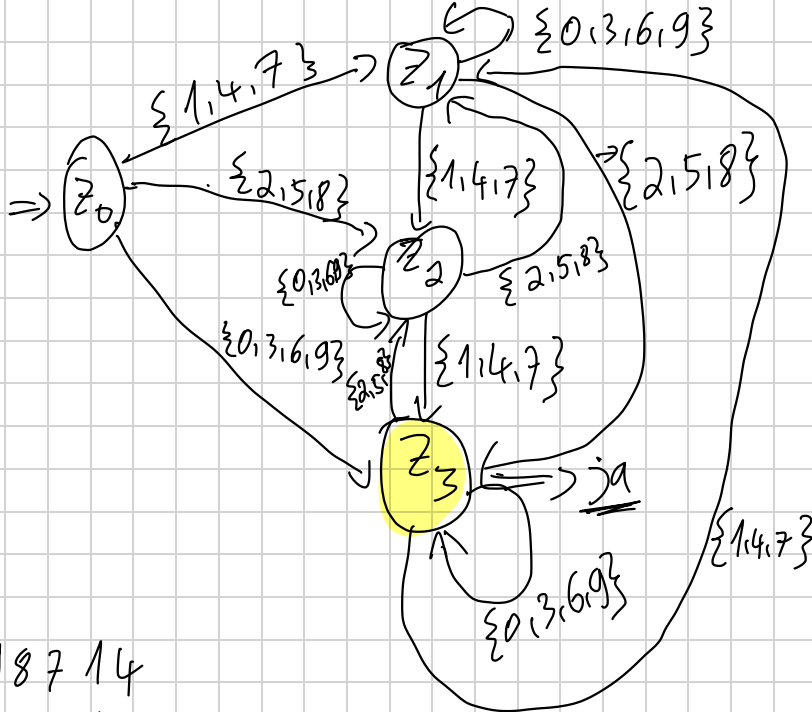


4)



$z_1 = \text{nein}$
 $z_2 = \text{ja}$

5)



$Z_1 = \text{nein}$

$Z_2 = \text{nein}$

$Z_3 = \text{ja}$

0 \Rightarrow 0 | 3 | 6 | 9

1 \Rightarrow 2 | 5 | 8

2 \Rightarrow 1 | 4 | 7

3 \Rightarrow 0 | 3 | 6 | 9

4 \Rightarrow 2 | 5 | 8

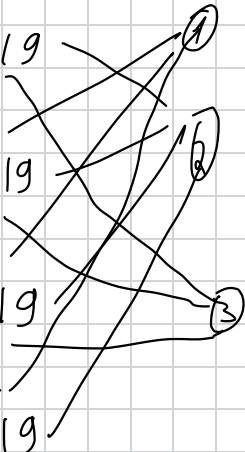
5 \Rightarrow 1 | 4 | 7

6 \Rightarrow 0 | 3 | 6 | 9

7 \Rightarrow 2 | 5 | 8

8 \Rightarrow 1 | 4 | 7

9 \Rightarrow 0 | 3 | 6 | 9



298714

2 nein ✓

29 nein ✓

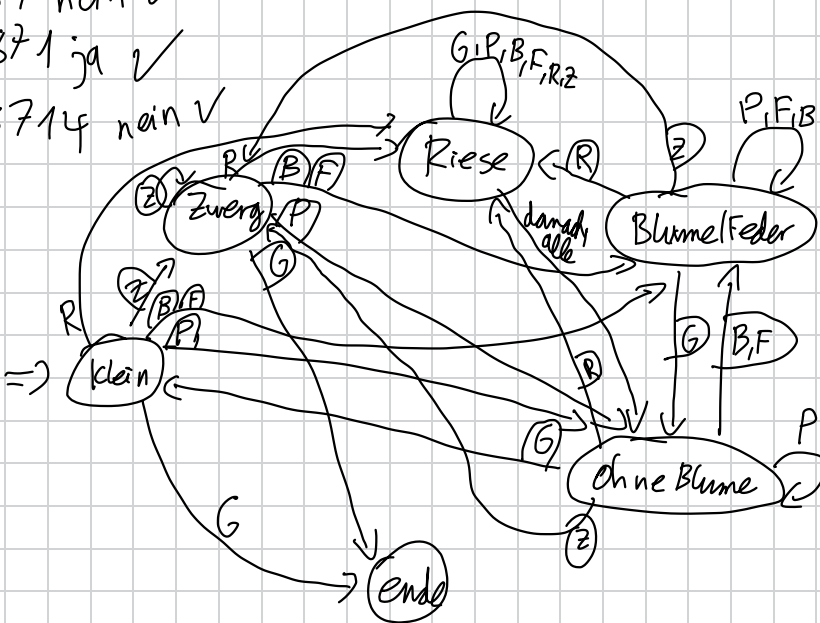
298 nein ✓

2987 nein ✓

29871 ja ✓

298714 nein ✓

6)



Zustände

Riese

Blume/Feder

ohne Blume

klein

Zwerg

ende

Übergänge

Pilze \Rightarrow P

Agar \Rightarrow G

Blumen \Rightarrow B

Feder \Rightarrow F

Riese \Rightarrow R

Zwerg \Rightarrow Z