

Homework 1

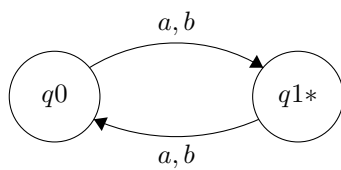
Problem 1

Order	Element
1	0
2	1
3	000
4	001
5	010
6	011
7	100
8	101
9	110
10	111
11	00000

Problem 2

Order	Element
1	“”
2	“aba”
3	“ba”
4	“abaaba”
5	“ababa”
6	“baba”
7	“abaabaaba”
8	“abaababa”
9	“abababa”
10	“bababa”
11	“abaabaabaaba”

Problem 3



Problem 4

Non-terminals: $\{S,A\}\{S,A\}$

Terminals: $\{a,b\}\{a,b\}$

Production Rules: $S \rightarrow aA$

$S \rightarrow bA$

$A \rightarrow aS$

$A \rightarrow bS$

Start Symbol: SS