

# Aufgabenblatt 7 - Lars Gröber

## 1)

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### a)

Befehl	Stack
PushK 11	11
PushK 13	11,13
Push 1	11,13,11
Sub	11,2
Push 0	11,2,2
Mark 1	11,2,2
Branchz 2	11,2
Slide 1 1	2
PushK 2	2,2
PushK 4	2,2,4
Mult	2,8
PushK 8	2,8,8
Sub	2,0
Jump 1	2,0
Branchz 2	2
Mark 2	2

### b)

Siehe Blatt7\_LarsGroeber.hs

## 2)

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### a)

```
pushK 1
pushK 1
slide 2 2
```

### b)

```
pushK 1
-
branchz Second
pop
pop
```

```
jump False

Second.
pushK 1
-
branchz Third
pop
jump False

Third.
branchz True
False.
pushK 0
jump End

True.
pushK 1

End.
```

**c)**

```
START.
# 2
pop
-
push 0
pushK -1

# 8
pop
pop
pop
pushK 1
push 0
pushK -1

# 3
pop
pop
-
pushK 1
pushK 0
pushK -1

# 8
pop
slide 1 2
pop
pushK 1
pushK 1
pushK 1
pushK -1

# 4
+
pushK -1

# 8
-
pushK -1

# 5
+
*
*
```

```
push 0
pushK 1
pushK -1

# 8
pop
pop
pop
pop
pushK 1
push 0
push 0
pushK -1

# 6
+
*
push 1
pushK -1

# 8
+
pop
pop
pushK 1
pushK 1
pushK -1

# 7
+
*
*
pushK 1
push 0
pushK -1

# 8
pop
pop
pop
pop
pushK 1
push 0
push 0
pushK -1

jump START
```