Main-Loop:

(After each subtraction from R0)

```
ANDi    R4, 0x00, R4
Bne     R4, R0, e1        ) compare with 0
Jump    exit

e1      ADDi    R4, 0x01, RH
        Bne     R4, )R0, e2   ) compare with 1
        Jump    exist
                .
                .
                .
```

```
l1      ADDI   R0, 0x01 , R0
        Bne    R0, R4, Main-Program
        Jump   exist
```
} Compare with 11

Main-Program   ———
                        ———
                        ———
                        — —
                        — —
                Bne   Main-Loop

exist   instructions to store   quotient
              ;   ↳ Remainder
              ;